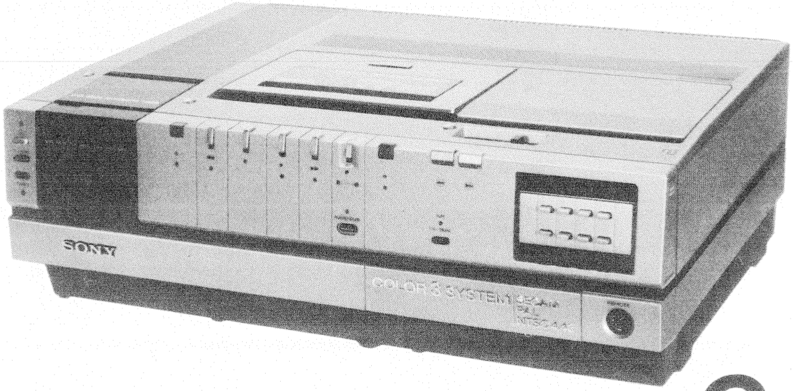
SL-T7MER
RMR-214K

SERVICE MANUAL



December, 1982

C CHASSIS

Also refer to ADJUSTMENT on SL-T7ME SERVICE MANUAL.

SPECIFICATIONS

General	
Video recording system	Rotary two-head helical scanning
Video signal	Recording: CCIR standards, PAL and SECAM color Playback: CCIR standards, PAL and SECAM color/EIA standards NTSC4.43 color
Storage temperature	−20°C to +65°C
Operating temperature	5°C to 40°C
Aerial	75-ohm, asymmetrical aerial socket
Channel coverage	VHF Western European Channels E2–12 UHF Western European Channels E21–68 (a total of up to 8 preselected channels)
RF output signal	UHF channels E30 to E39 (variable) 75 ohms, unbalanced
Power requirements	110–240V AC ±10% 50/60 Hz
Power consumption	44 W
Dimensions	485 × 168 × 379 mm (w/h/d)
Weight	15.8 kg

Video	
Input	VIDEO IN: BNC connector 1.0V (p-p) $^{+1.0}_{-0.5}$ V (p-p), 75 ohms unbalanced, sync negative
Output	VIDEO OUT: BNC connector 1.0V (p-p) ±0.1V (p-p), 75 ohms unbalanced, sync negative
Horizontal resolution	Color: 260 lines (PAL and SECAM) B/W: 300 lines
Signal-to-noise ratio	Color: Better than 40 dB B/W: Better than 43 dB

Audio	
Input	AUDIO IN: Phono connector 47 k ohms, −10 dBs, MIC: mini jack −60 dBs, suitable for microphone with 600-ohm impedance
Output	AUDIO OUT: Phono connector Less than 10 k ohms, −5 dBs (47 k ohm load), unbalanced
Frequency response	50 Hz to 10 kHz
Signal-to-noise ratio	Better than 40 dB
Audio distortion	Less than 4% at 400 Hz

Tape transport	
Tape speed	18.73 mm/sec. (PAL and SECAM) 20 mm/sec. (NTSC)
Maximum recording time (PAL and SECAM)	2 hours 10 min (with Sony L-500 cassette) 3 hours 15 min (with L-750)
Fast forward/rewind time	Within 3½ min. (L-500)

Timer	Only for recording Electronic digital timer 24-hour-clock cycle

— Continued on Page 2 —

MICROFILM

Beta VIDEO
CASSETTE RECORDER
SONY®

Consumer VIDEO

Wireless remote control kit

Remote control system
Infrared control
Power requirements 3 V dc, 2 IEC designation R6 batteries (size AA)
Dimensions
Commander: Approx. 65 × 150 × 18 mm (w/h/d)
Receiver: Approx. 75 × 22 × 110 mm (w/h/d) Incl. projecting parts
Weight
Commander: Approx. 140 g, incl. batteries
Receiver: Approx. 145 g

Accessories supplied

Wireless remote control kit RMR-214K
Betamax Video cassette tape
75-ohm coaxial cable
Dust cover
Sony SUM-3 (NS) New Super battery (2)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

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Name	Printed Wiring Board	Schematic Diagram	Electrical Parts List
RF-2	P49 – 52	P53 – 56	P120
YC-7			P111
AV-1			P121
DC-1	P57 – 60	P61 – 64 (Including AV-1 Board)	P118
FG-1			P139
SV-1			P135
SV-2			P137
CN5	P65 – 68	P69 – 72	P139
CN6			P134
LS-3			P1333
PL-2			P127
SY-15			P127
SY-14			P130
CH-4	P73 – 76	P77 – 80	P134
CH-5			P134
CH-6			P134
TU-26			P132
IF-10			P131
SR-09	P81 – 84	P85 – 88	P141
FS-8			P133
TM-13			P139
TM-14			P141
TM-15			P140
LF-14			P133

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SECTION 1
GENERAL

1-1. FEATURES

Three color system
The recording and playback of PAL and SECAM color system, and the playback of the NTSC system are possible.

No voltage adjustment
This machine is designed for operation from the voltage between 110 V and 240 V ac without voltage adjustment.

Recording simplicity
Merely insert a video cassette and depress one button.

Long playing time with a small video cassette
Recording and playback of somewhat more than two hours is possible with a small Betamax L-500 video cassette, and three hours with an L-750 video cassette.

"Logic control" system
The function buttons are feather light to the touch. The operating mode may be changed without pressing the STOP button between modes.

Picture search operation
To locate a particular portion rapidly, the tape may be advanced or rewound at high speed while displaying the monochrome picture on the TV screen.

Timer recording
With the aid of the built-in digital timer, a TV program can be recorded while the recorder is unattended. Recording may be started at any time on any of the next seven days and stopped at desired time.

Wireless remote control
With the supplied RMR-214K wireless remote control kit, tape transport can be remotely controlled.

Camera recording
Camera recording can be made. The camera, equipped with the Sony K-type (14-pin) camera connector, can be connected directly to this recorder. The power supply to the camera, and the video and audio inputs from the camera to the recorder are made through only one connecting cable.

Audio dubbing
Audio (commentary, music, etc.) may be added to a previously made video recording.

Full auto rewind
At the end of the tape, the tape transport stops and the tape fully rewinds automatically.

Pause mode
The tape may be temporarily stopped in either record or playback mode. With the PAUSE button, interrupted recordings can be made with no noise marking the interruption in the playback picture.
In PAL and SECAM systems, monochrome still picture can be seen during pause mode, if desired.

1-1-1. Warning

To prevent fire or shock hazard, do not expose the set to rain or moisture.
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

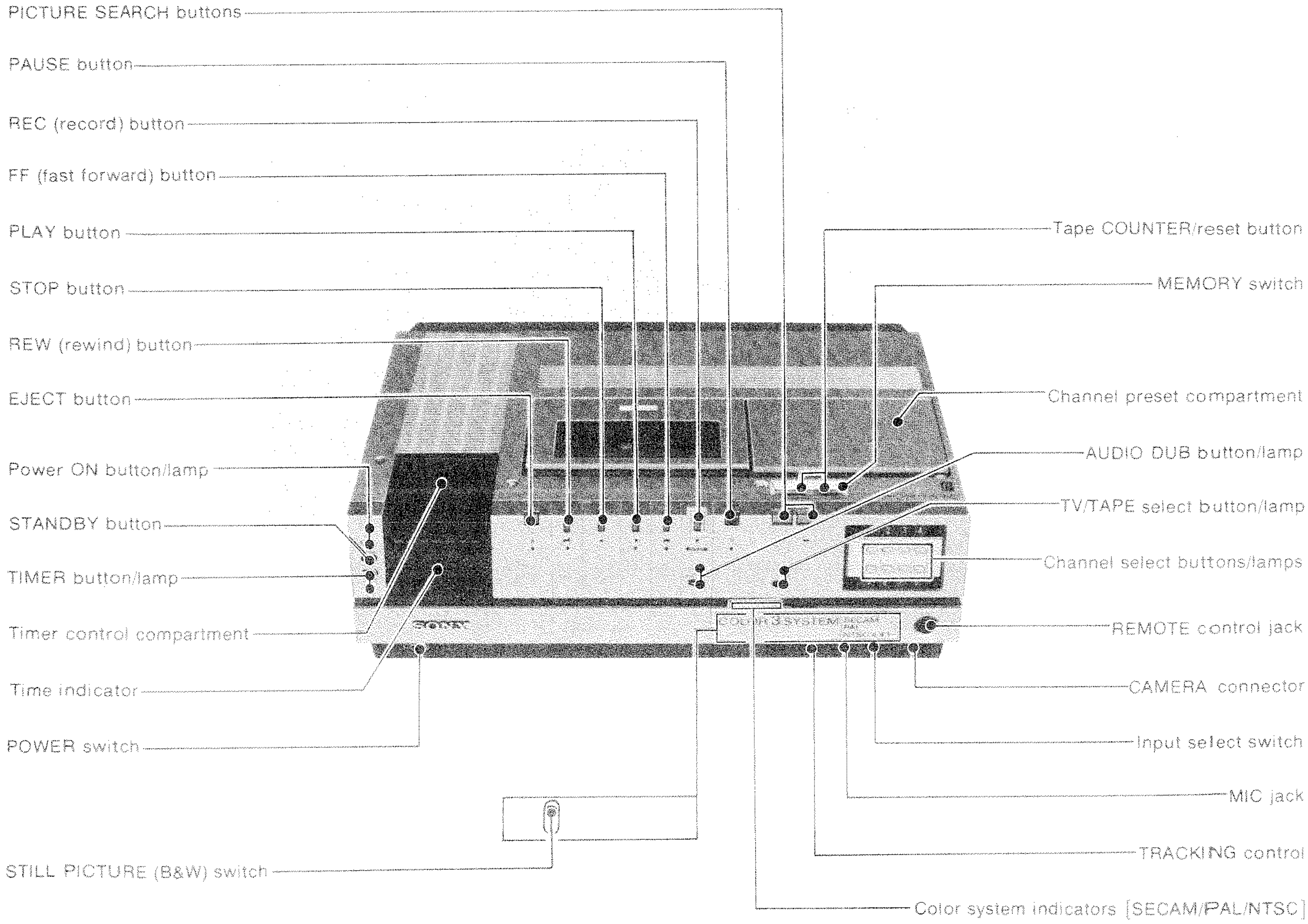
1-1-2. General Notes

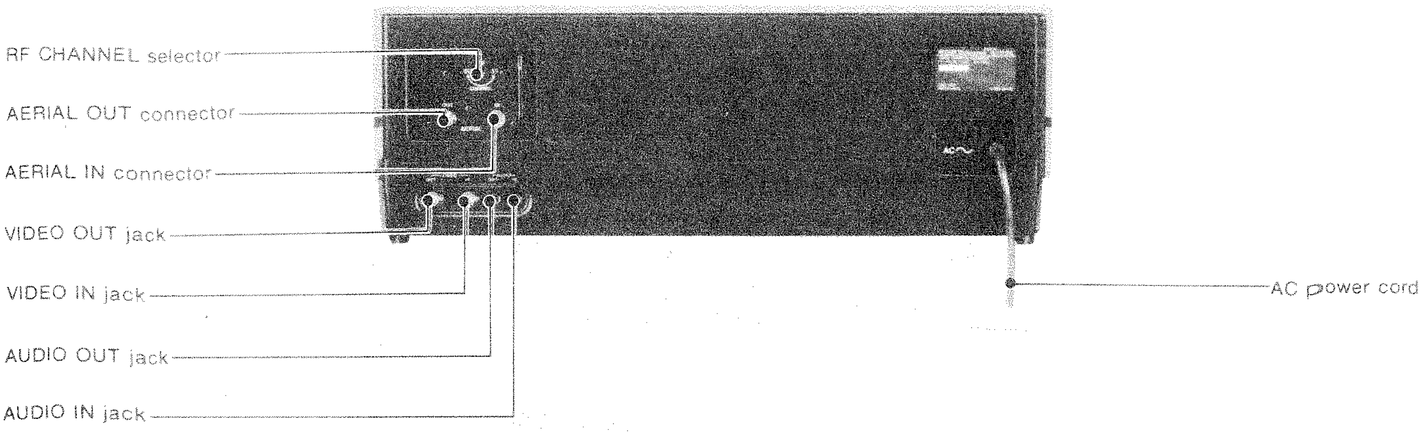
- This machine is designed for operation from the voltage between 110 V and 240 V ac, 50/60 Hz. Voltage adjustment is not required.
- This recorder is designed for operation in a horizontal position.
- Do not install the recorder in a location near heat sources, such as radiators of air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Allow adequate air circultation to prevent internal heat buildup. Do not transport the recorder on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Keep the recorder and videocassettes away from strong magnetic fields.
- After playing tape, remove the videocassette from the compartment if the recorder is not to be used for any length of time. Do not transport the recorder with a videocassette in place.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- Should any liquid or solid object fall into the cabinet, unplug the recorder and have it checked by qualified personnel before operating it any further.
- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your recorder. For maximum protection, repack the recorder as it was originally packed at the factory.
- **This machine is designed to record and play back the PAL color video signal. However it can also be used to record and play back the SECAM signal and to play back the NTSC signal with reasonable results.**

Television programmes, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws.

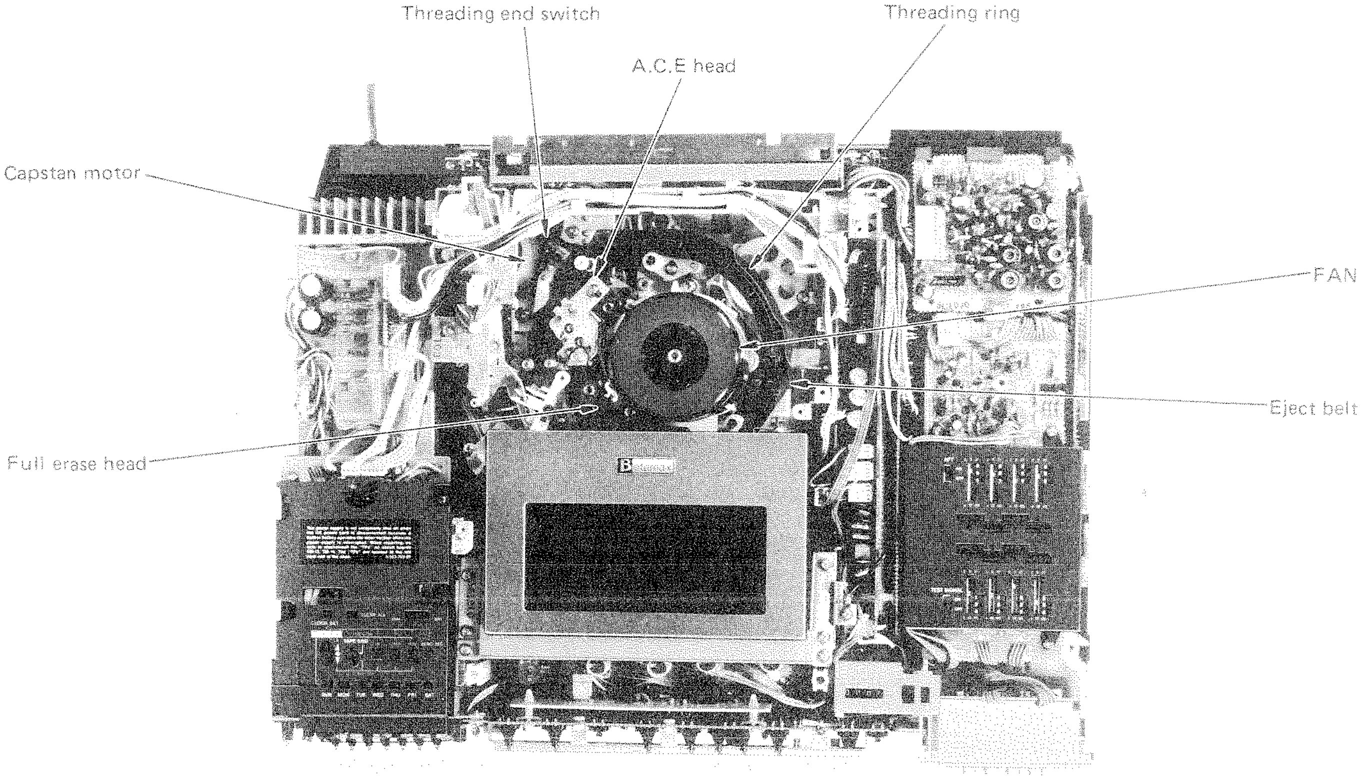
1-2. LOCATION OF PARTS AND CONTROLS

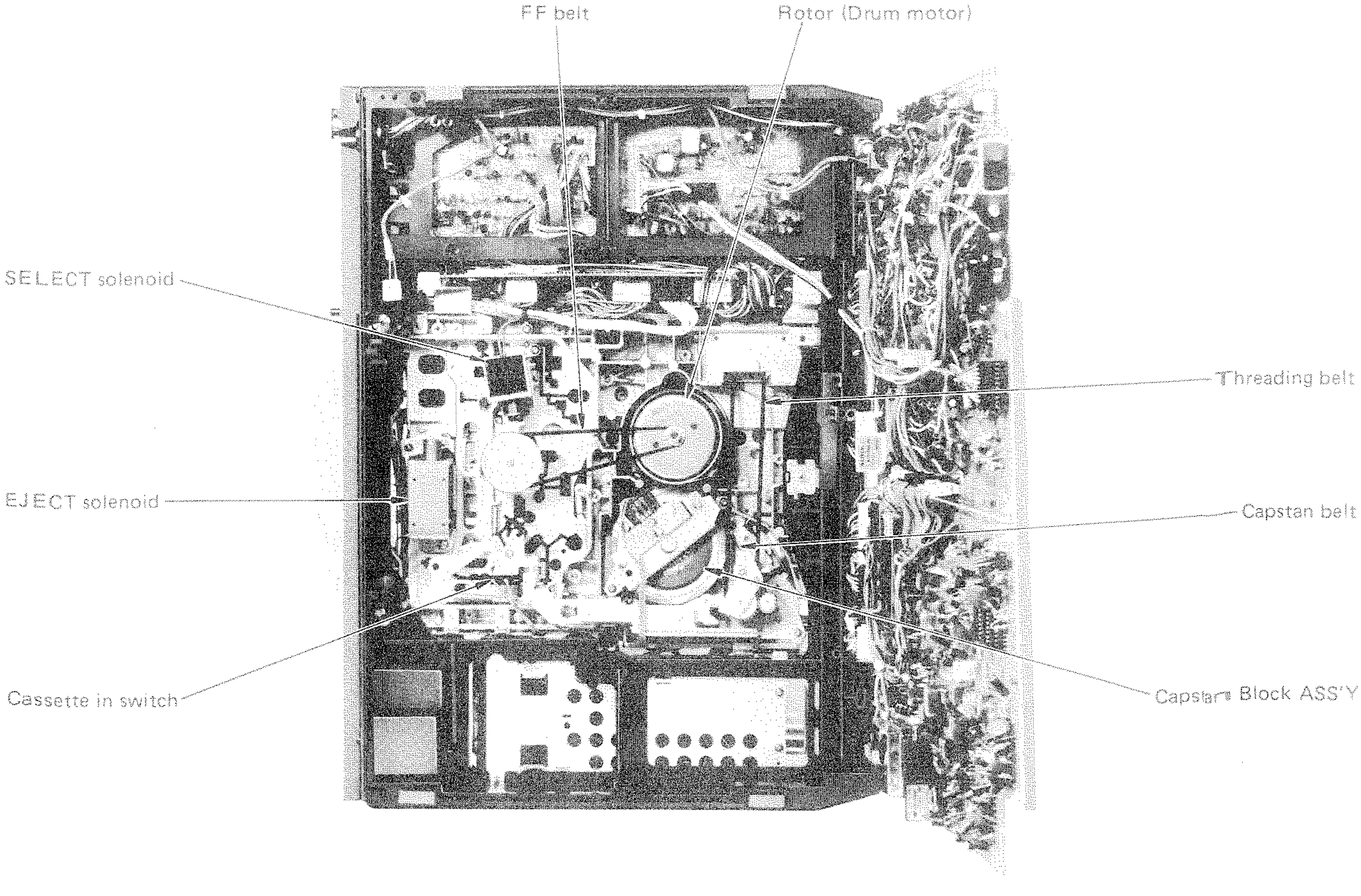
EXTERNAL VIEWS


PICTURE SEARCH buttons
PAUSE button
REC (record) button
FF (fast forward) button
PLAY button
STOP button
REW (rewind) button
EJECT button
Power ON button/lamp
STANDBY button
TIMER button/lamp
Timer control compartment
Time indicator
POWER switch
STILL PICTURE (B&W) switch
Tape COUNTER/reset button
MEMORY switch
Channel preset compartment
AUDIO DUB button/lamp
TV/TAPE select button/lamp
Channel select buttons/lamps
REMOTE control jack
CAMERA connector
Input select switch
MIC jack
TRACKING control
Color system indicators [SECAM/PAL/NTSC]
SONY
COLOR 3 SYSTEM


RF CHANNEL selector
AERIAL OUT connector
AERIAL IN connector
VIDEO OUT jack
VIDEO IN jack
AUDIO OUT jack
AUDIO IN jack
AC power cord
AC~

INTERNAL VIEWS

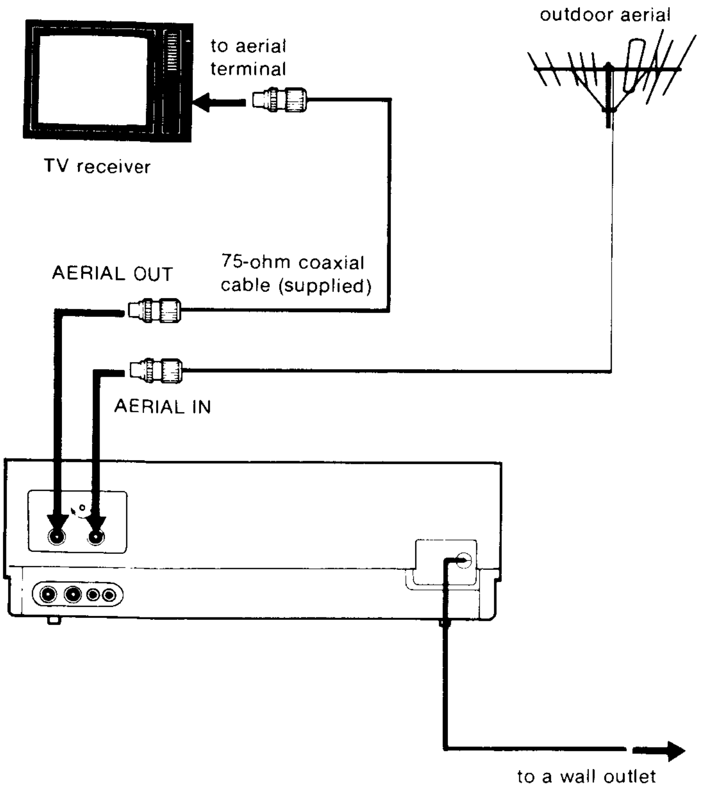

Threading end switch
Threading ring
A.C.E head
Capstan motor
FAN
Eject belt
Full erase head


FF belt
Rotor (Drum motor)
SELECT solenoid
Threading belt
EJECT solenoid
Capstan belt
Cassette in switch
Capstan Block ASS'Y

1-3. AERIAL CONNECTION

This recorder is equipped with a standard aerial connecting socket. Use a coaxial aerial connecting cable equipped with a single plug and insert the plug into the AERIAL IN connector on the recorder. Make the connection between AERIAL OUT connector on this recorder and the aerial socket on the TV receiver with the 75-ohm coaxial cable supplied.

- Either a telecast TV signal or an output signal from the built-in RF unit is obtained from the AERIAL OUT connector.



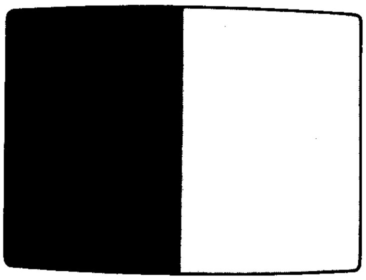
1-4. TV ADJUSTMENT AND CHANNEL PRESETTING

Once the TV receiver is adjusted for use with the recorder and channels on the recorder are preset, you can view or record a program, or do both all the same time, by pressing one of the channel select buttons on the recorder. Moreover, you can record one program selected on the recorder while viewing another program on the TV.

First adjust the TV to accept the recorder output channel from the RF unit that is contained in the compartment at the rear of the recorder. Then tune in the television channels on the recorder.

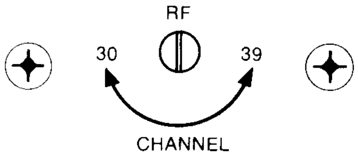
1-4-1. TV Adjustment

❶ Make the necessary connections and depress the POWER switch of the recorder.
❷ Press the ON switch to turn on the recorder.
❸ Press the TV/TAPE select button so that the red TAPE lamp will light.
❹ Set the TEST SIGNAL switch in the channel preset compartment to ON.*
❺ Turn on the TV.
❻ Adjust one of the unused program selectors of the TV to the range of the RF unit output channel — between UHF E30 and E39 — until a black and white pattern is clearly displayed on the TV screen and a high pitched tone can be clearly heard.



- If the test picture is not free of disturbance, press the TV/TAPE button (the red lamp goes off). If there are interference signals or even a TV program on the TV screen, select an inactive channel between E30 and E39 on the TV where the picture tube shows only snow and the loudspeakers give out a steady rustling sound. Then press the TV/TAPE button (the red lamp lights) again, and turn the screw of the RF CHANNEL selector at the rear slowly until the black and white pattern appears on the TV screen.

* Use the adjustment tool attached to the rear of the recorder to turn the screw.



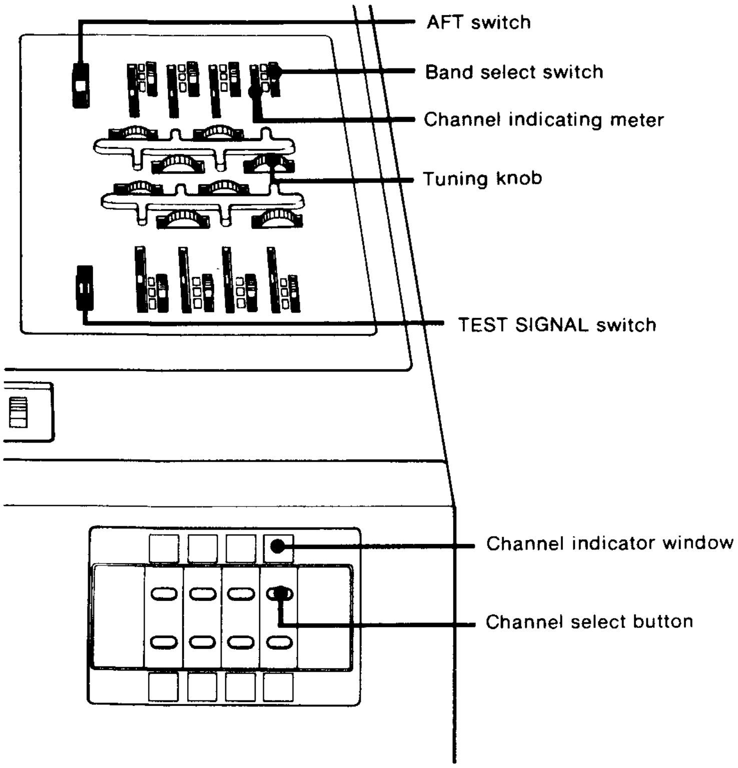
❼ Reset the TEST SIGNAL switch to OFF.

NOTE: If a recorded Betamax video cassette is available, you can tune the TV while playing back the cassette. Insert the cassette and press the PLAY button. Then tune the TV until the cassette program is clearly displayed on the TV screen and the sound can be heard clearly.

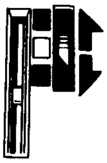
Now the TV has been correctly tuned to receive the output signals of the RF unit.

1-4-2. Channel Presetting

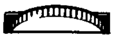
The SL-T7MER has a built-in electronic tuner that is capable of receiving up to 8 television channels. Once preset, any channel may be selected by pressing the channel select button.


AFT switch
Band select switch
Channel indicating meter
Tuning knob
TEST SIGNAL switch
Channel indicator window
Channel select button

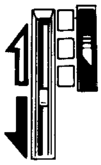
❶ Open the channel preset compartment.
❷ Set the AFT switch to OFF.
❸ Push the channel select button to be preset. The associated channel indicator will light.
❹ Set the band select switch associated with the pushed button to one of the three color-coded positions:

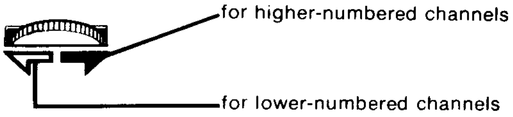


to tune in channel E21 through E68, set to blue.
to tune in channel E5 through E12, set to yellow.
to tune in channel E2 through E4, set to red.



❺ Turn the tuning knob until the desired station is properly tuned in. The channel indicating meter provides a visual indication of the approximate location of the tuning control with the operating range of the band select switch.




for higher-numbered channels
for lower-numbered channels

When the picture appears, slowly turn the tuning knob to right until a herringbone pattern appears in the colored part of the picture, then turn the knob back until the herringbone pattern just disappears and the picture is clear.
❻ Repeat steps ❸, ❹ and ❺ for the other channels.
To identify the channels, consult a newspaper or TV program guide.
❼ Set the AFT switch to ON when the all stations have been set up as desired.

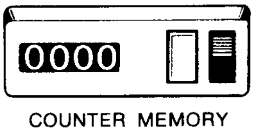
1-4-3. Tape Counter and Memory Switch

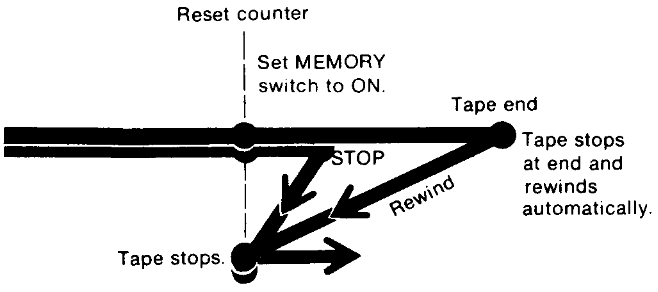
For later reference in playback, reset the Tape COUNTER to "0000" before starting a recording.
The MEMORY switch is used for precise program relocation of a recorded tape.

❶ Locate any desired starting point on the tape and reset the Tape COUNTER to "0000" at this point.
❷ Set the MEMORY switch to ON.
❸ Play or record a tape.
❹ Press the STOP button.
❺ Press the REW button.

The tape will rewind and stop automatically at a point near the tape COUNTER reading "9999" (one count before "0000" in order to avoid missing the starting point).

- To rewind the tape further than "0000", press the REW button again.



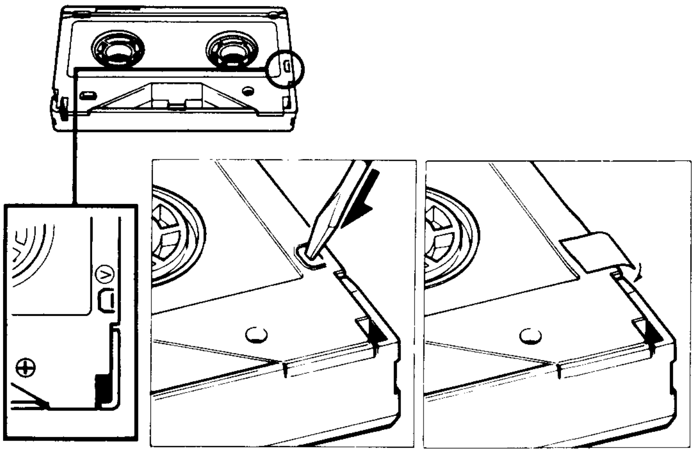


Note

- When this function is not required, set this switch to OFF.

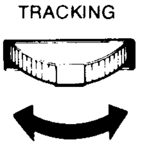
1-4-4. Video Cassette Safety Tab

To protect a recording from accidental erasure, break off the tab on the bottom of the video cassette using a screwdriver or similar. With the tab removed, the record mode does not function. If you wish to record on a cassette with the tab removed, simply cover the hole with a piece of cellophane or vinyl tape.



1-4-5. Tracking Adjustment

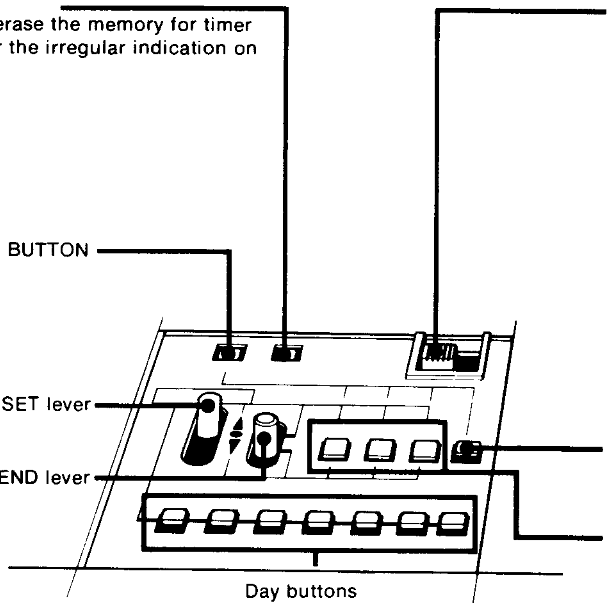
In the unlikely event that streaks or snow appear in the playback of tapes made on other recorders, turn the TRACKING control in either direction until the best picture is obtained. Allow a second or two for the new settings to take effect. When playback of this particular tape is finished, return the TRACKING control to its centre detent position.



1-4-6. Should Snow or Streaks Appear

Should snow or streaks appear in the playback picture after the unit has been in use for some time, the video heads may require cleaning. Clean the video heads with the L-25CL video head cleaning cassette (optional). For details about cleaning, refer to the instructions which came with the cleaning cassette.

1-5. TIMER OPERATION


CLEAR ALL button
CLOCK SET BUTTON
TIMER SET lever
TAPE END lever
Dimmer switch
ZERO SEC (0-second adjustment) button
Time adjustment buttons
Day buttons

CLEAR ALL button
Press this button to erase the memory for timer recording, or to clear the irregular indication on time indicator

Dimmer switch
Select the brightness of the time indicator.
DIM: dimmer indication
BRT: brighter indication

CLOCK SET BUTTON

TIMER SET lever

TAPE END lever

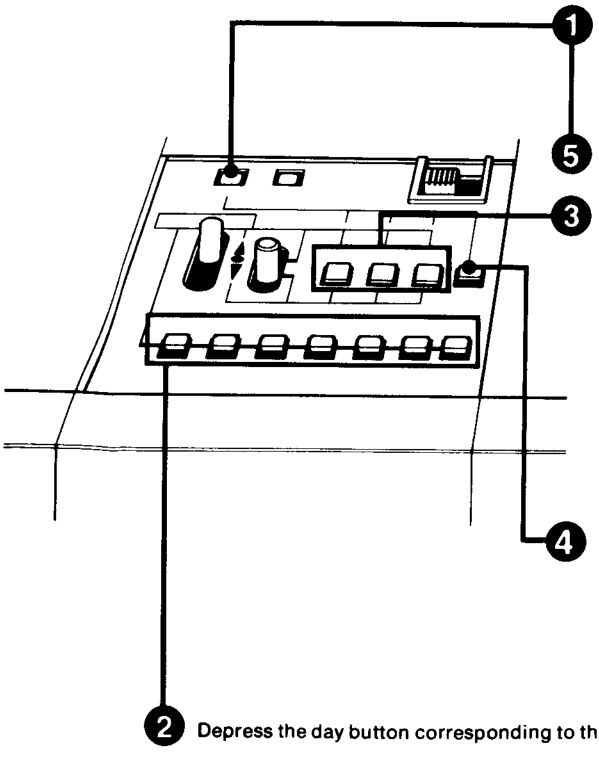
ZERO SEC (0-second adjustment) button

Time adjustment buttons

Day buttons

SUN:	Sunday
MON:	Monday
TUE:	Tuesday
WED:	Wednesday
THU:	Thursday
FRI:	Friday
SAT:	Saturday

1-5-1. Clock Time and Day Adjustment



① Depress the CLOCK SET button with a tip of a pen or similar and hold it depressed through step ④.

⑤ Release.

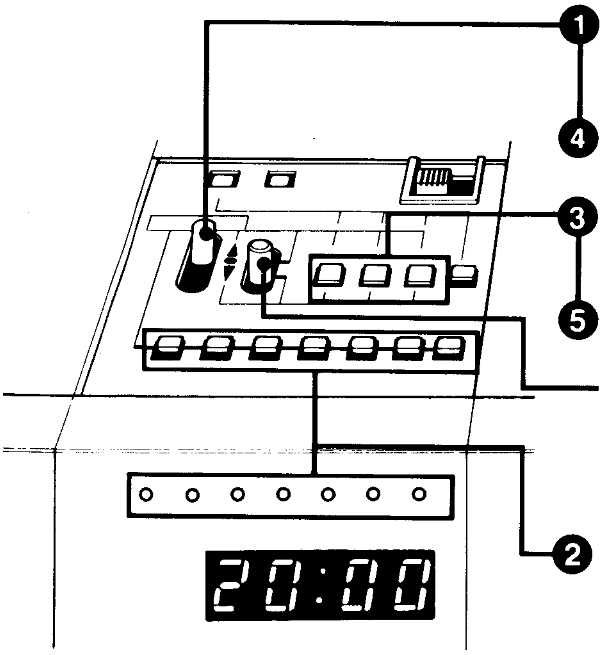
③ Adjust the time.
Depress the H button for hour-digit setting, 10MIN button for ten-minute-digit setting, and MIN button for minute-digit setting.
First keep the button depressed to advance the digits, then push it stroke by stroke as the desired indications approaches.

④ Depress ZERO SEC button simultaneously with a standard time signal (broadcast, telecast or telephone) at that exact time.
The built-in clock starts operating from the 0 second of the displayed time.

② Depress the day button corresponding to the current day. The day indicator lights.

1-5-2. TURN-ON/OFF Day(s) and Time Settings

Before proceeding with this setting, set the clock time and day correctly.



❶ Set the TIMER SET lever to TURN ON position, and hold it through step ❸.

❹ Set the lever to TURN OFF position, and hold it through step ❺.

❸ Set the turn-on time with H, 10MIN and MIN buttons.

❺ Set the turn-off time with H, 10MIN and MIN buttons.

To record to the end of the tape, set this lever to TAPE END position instead of the steps ❹ and ❺

- When the turn-off time is the same as the turn-on time, the timer recording will not be realized even if this lever is set to TAPE END.

❷ Select the day to start recording. The associated day indicator lights.

- When the TIMER SET lever is set to TURN ON, all day indicators light to indicate that the recording will start everyday. If you want to start recording on a particular day, depress the appropriate day button so that the desired day lamp will light. When the day button is depressed, the associated lamp will go out, and the lamp will light when the button is depressed again.

To check the setting

TIMER SET

Set the lever to the TURN ON position, to check the turn-on day and time.

Set the lever to the TURN OFF position, to check the turn-off time.

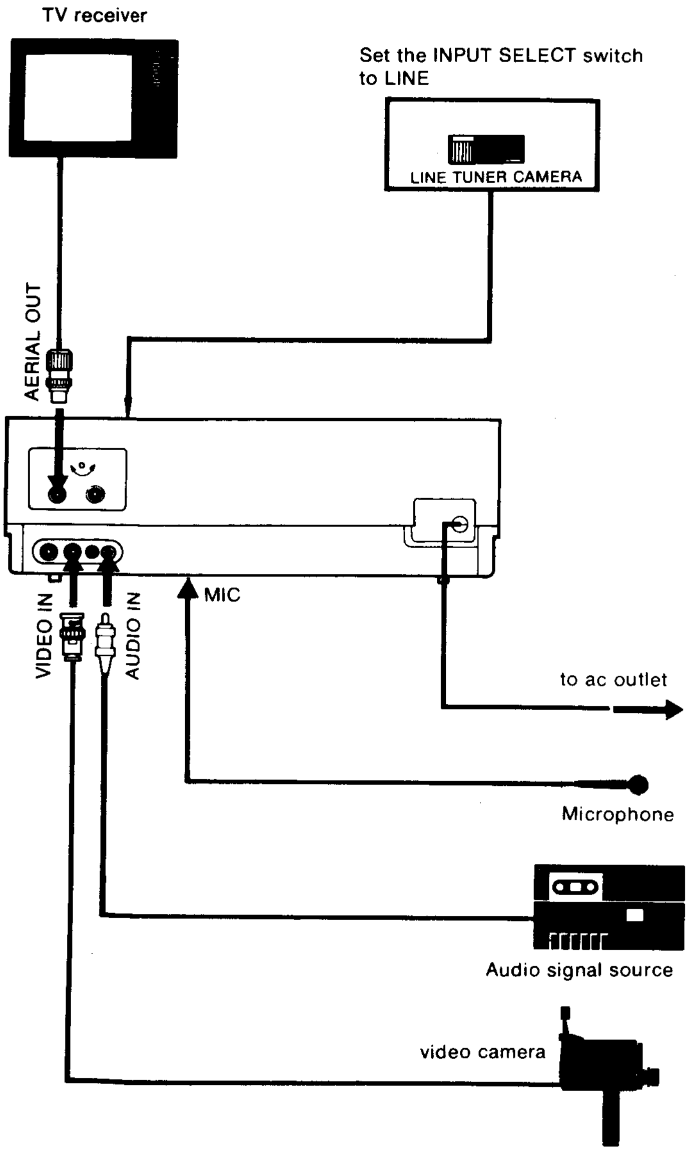
The colon blinks to indicate

- that the power cord is first plugged in.
- that the power has been interrupted.
- that the CLEAR ALL button is pressed.

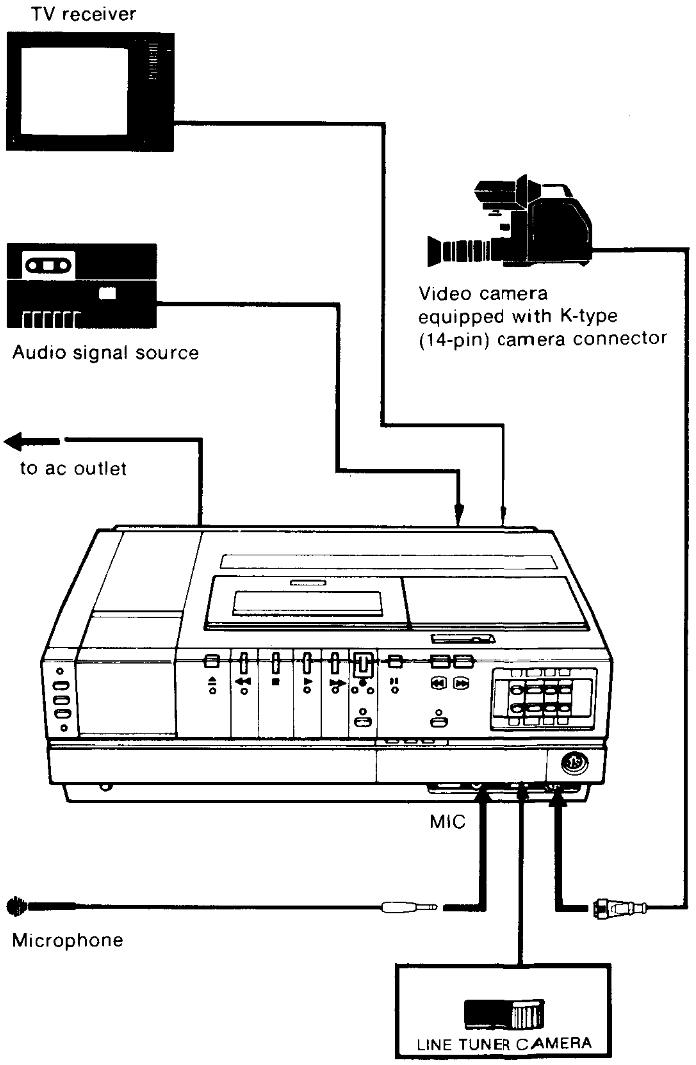
1-6. CONNECTIONS FOR ADDITIONAL USES

Camera recording and audio dubbing connections can be made to extend the recorder's capabilities. For operating procedures, refer to the ready-reference.

1-6-1. Camera Recording


TV receiver
LINE TUNER CAMERA
AERIAL OUT
VIDEO IN
AUDIO IN
MIC
to ac outlet
Microphone
Audio signal source
video camera

Set the INPUT SELECT switch to LINE


TV receiver
Video camera equipped with K-type (14-pin) camera connector
Audio signal source
to ac outlet
MIC
Microphone
LINE TUNER CAMERA

Set the INPUT SELECT switch to CAMERA.

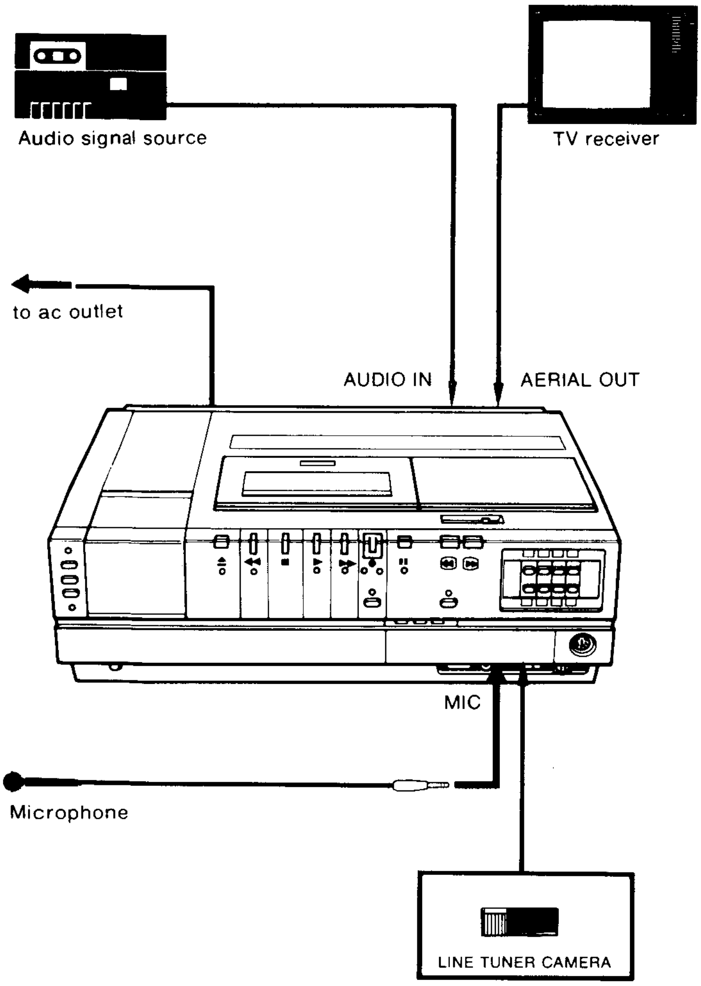
Refer to the instructions furnished with the equipment to be connected.

Notes

- Cameras must conform to CCIR TV standards.
- The power requirements of the camera should be DC 12V and power consumption should be under 10W.
- When a camera is equipped with Sony K-type (14-pin) camera connector, connect the camera to the CAMERA connector. In this case, set the INPUT SELECT switch to CAMERA.
When a camera is connected to the VIDEO IN connector using a BNC-type connector, set the INPUT SELECT switch to LINE.
- TV volume should be turned down to prevent acoustic feedback (whistle-like sound).
- The MIC connector has priority over the AUDIO IN connector. Any input to the AUDIO IN connector is automatically disconnected whenever a microphone is plugged into the MIC connector.

1-6-2. Audio Dubbing

New audio may be recorded onto a tape that already has video material recorded on it.

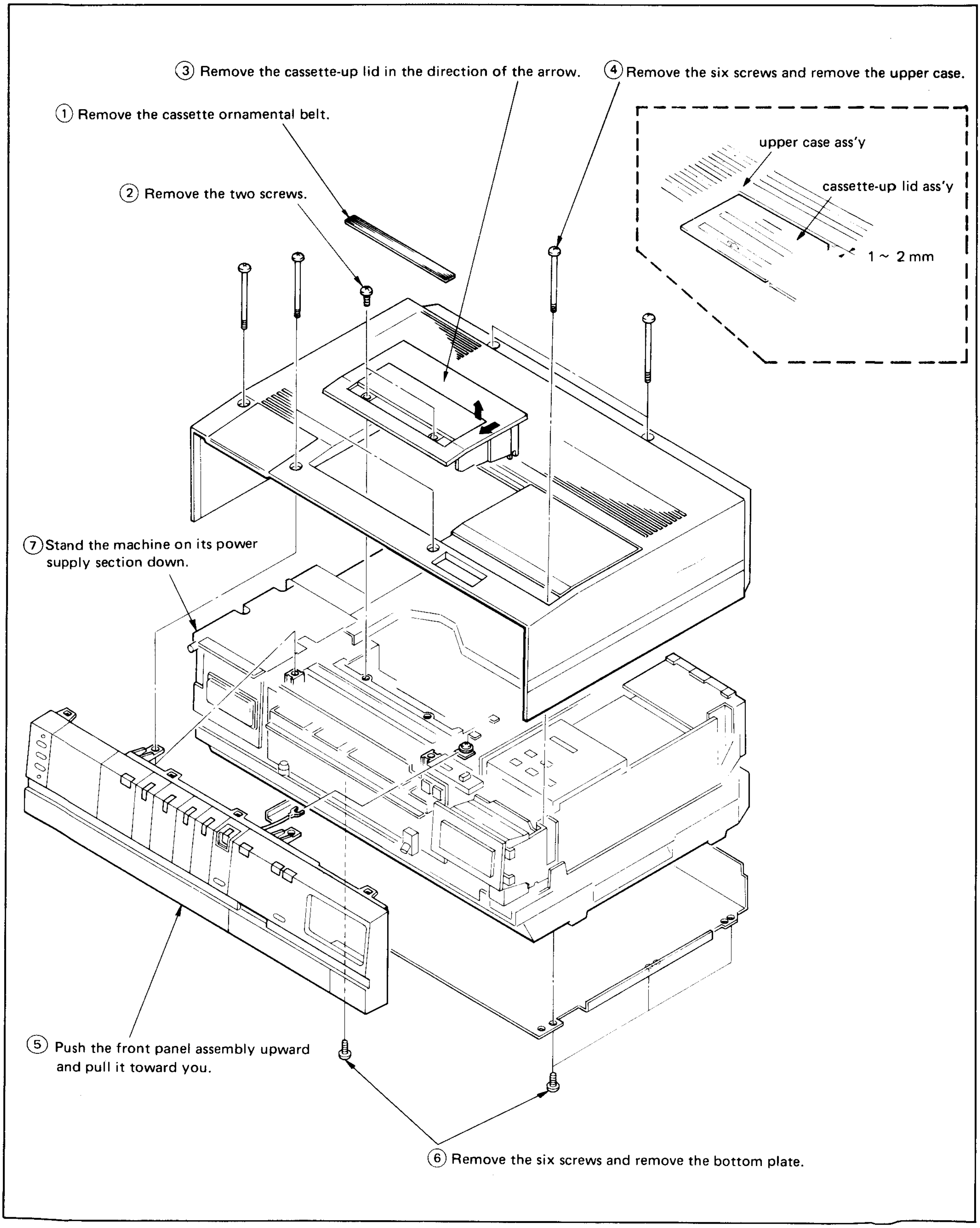

Audio signal source
TV receiver
to ac outlet
AUDIO IN
AERIAL OUT
MIC
Microphone
LINE TUNER CAMERA

Set the INPUT SELECT switch to LINE.

- TV volume should be turned down to prevent acoustic feedback (whistle-like sounds).
- The MIC connector has priority over the AUDIO IN connector. Any input to the AUDIO IN connector is automatically disconnected whenever a microphone is plugged into the MIC connector.

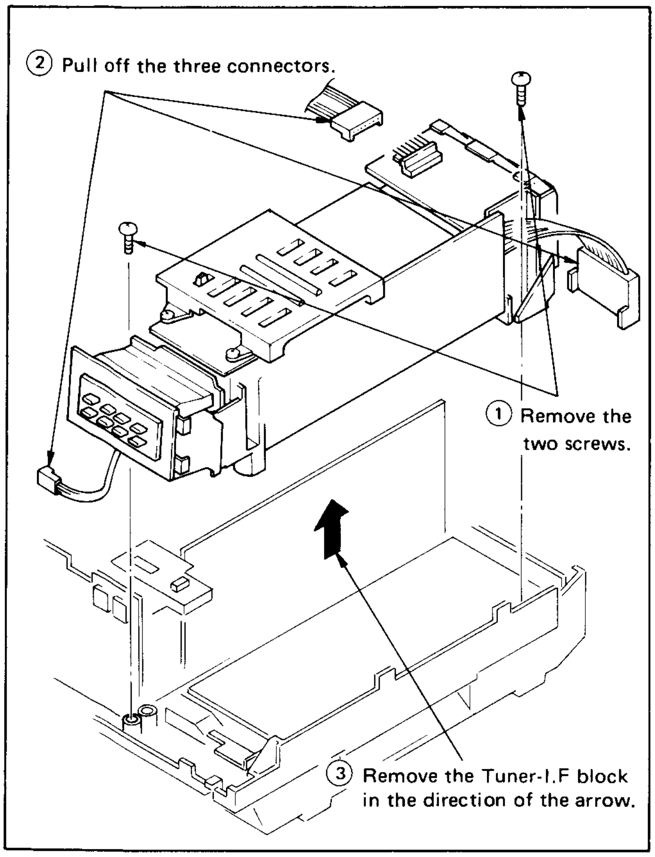
SECTION 2
DISASSEMBLY

2-1. Cabinet Removal



③ Remove the cassette-up lid in the direction of the arrow.
④ Remove the six screws and remove the upper case.
① Remove the cassette ornamental belt.
upper case ass'y
② Remove the two screws.
cassette-up lid ass'y
1 ~ 2 mm
⑦ Stand the machine on its power supply section down.
⑤ Push the front panel assembly upward and pull it toward you.
⑥ Remove the six screws and remove the bottom plate.

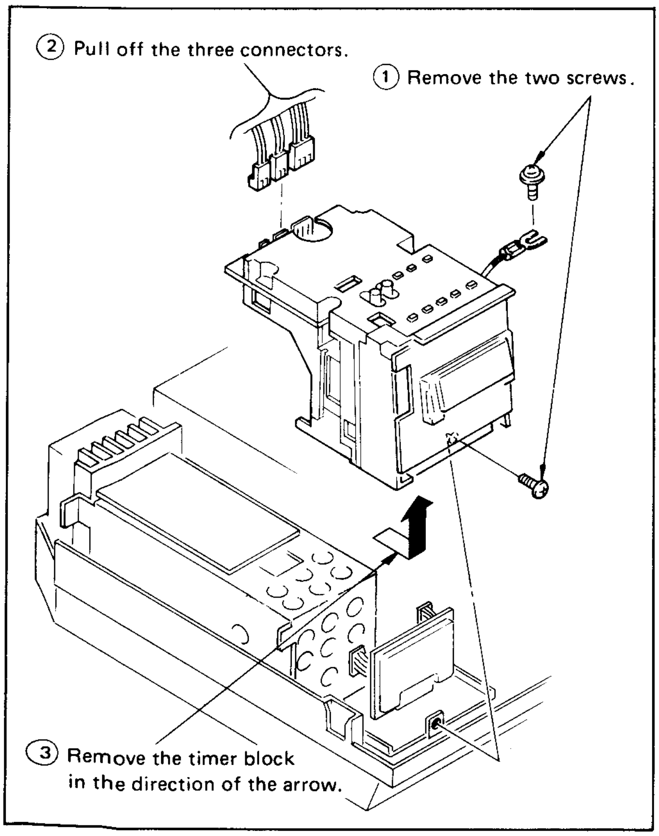
2-2. Tuner-I.F Block Removal


① Remove the two screws.

② Pull off the three connectors.

③ Remove the Tuner-I.F block in the direction of the arrow.

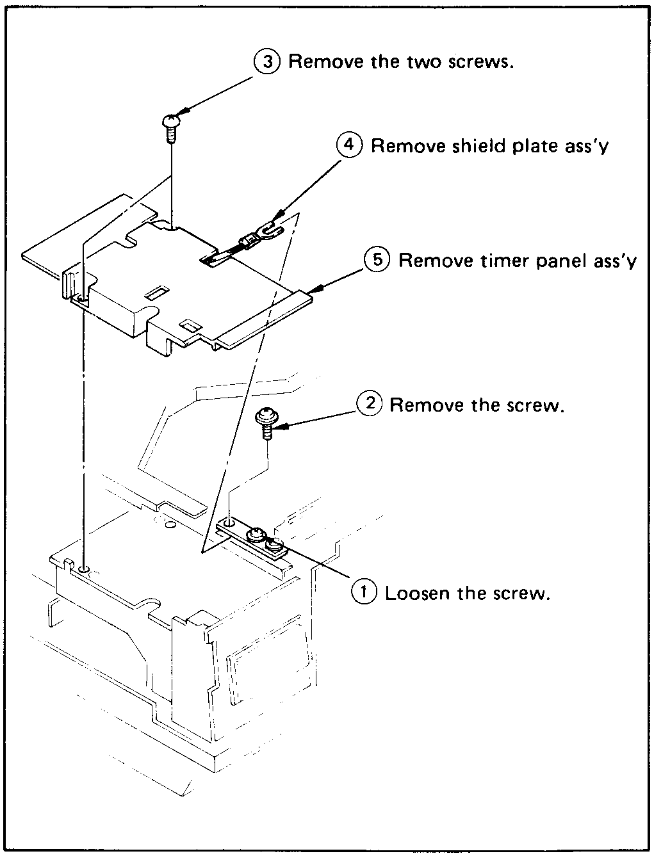
2-3. Timer Block Removal


① Remove the two screws.

② Pull off the three connectors.

③ Remove the timer block in the direction of the arrow.

2-4. Timer Panel Removal


① Loosen the screw.

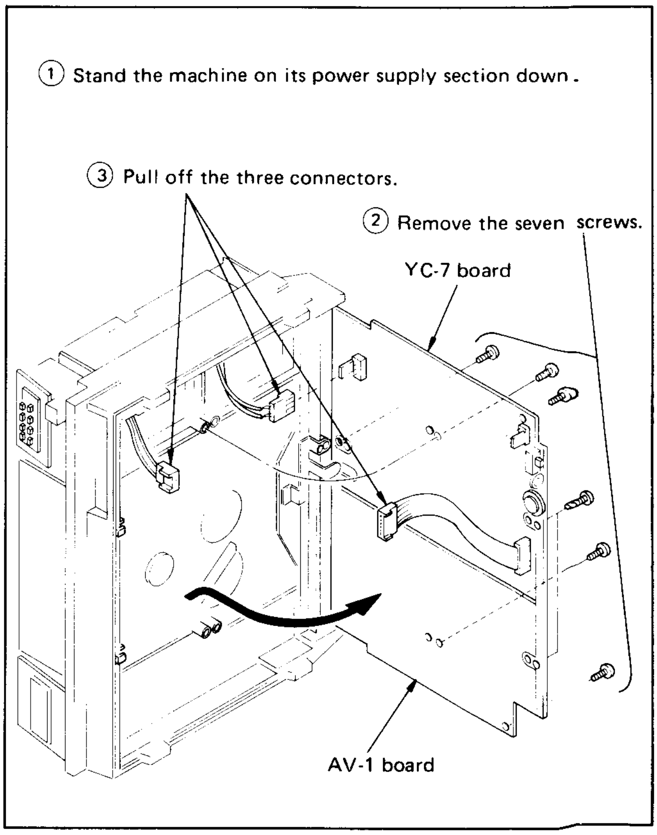
② Remove the screw.

③ Remove the two screws.

④ Remove shield plate ass'y

⑤ Remove timer panel ass'y

2-5. Checks of YC-7 and AV-1 Boards

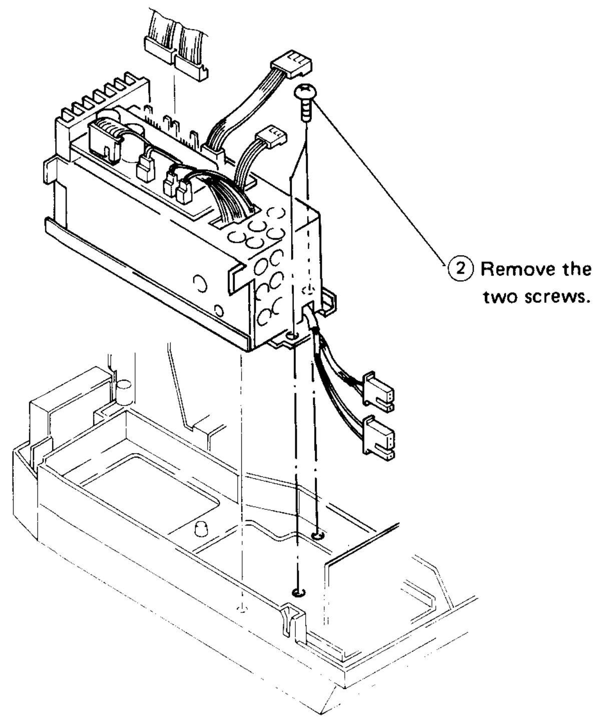

① Stand the machine on its power supply section down.

② Remove the seven screws.

③ Pull off the three connectors.

2-6. Switching Regulator Removal

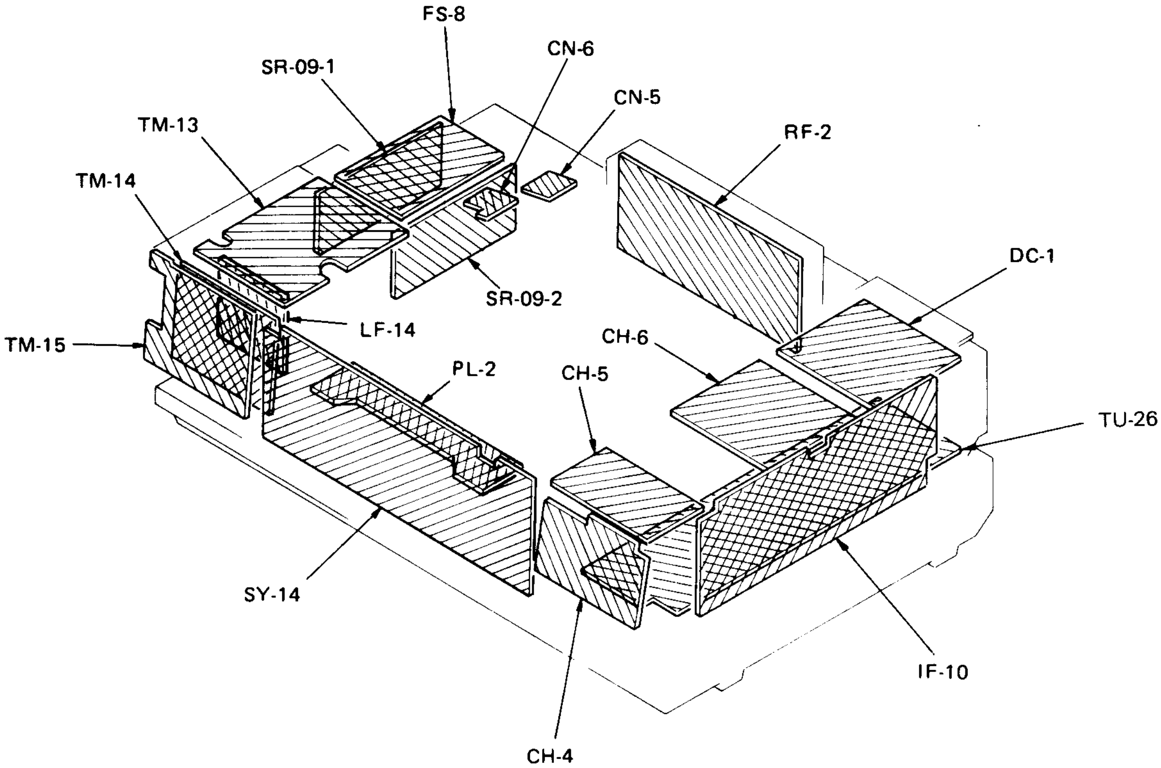
① Remove the six connectors.

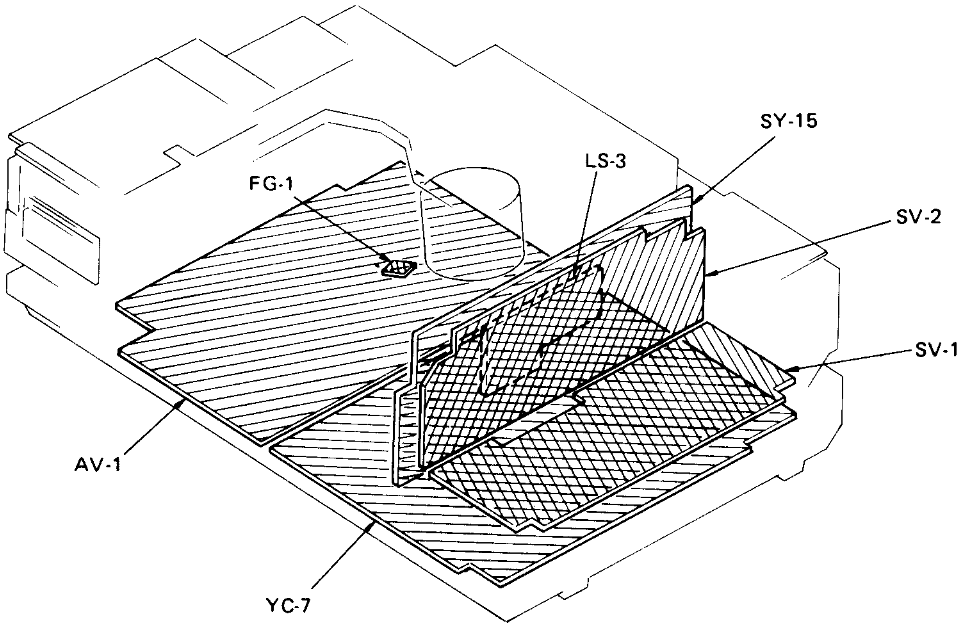


② Remove the two screws.

SECTION 3
DIAGRAMS

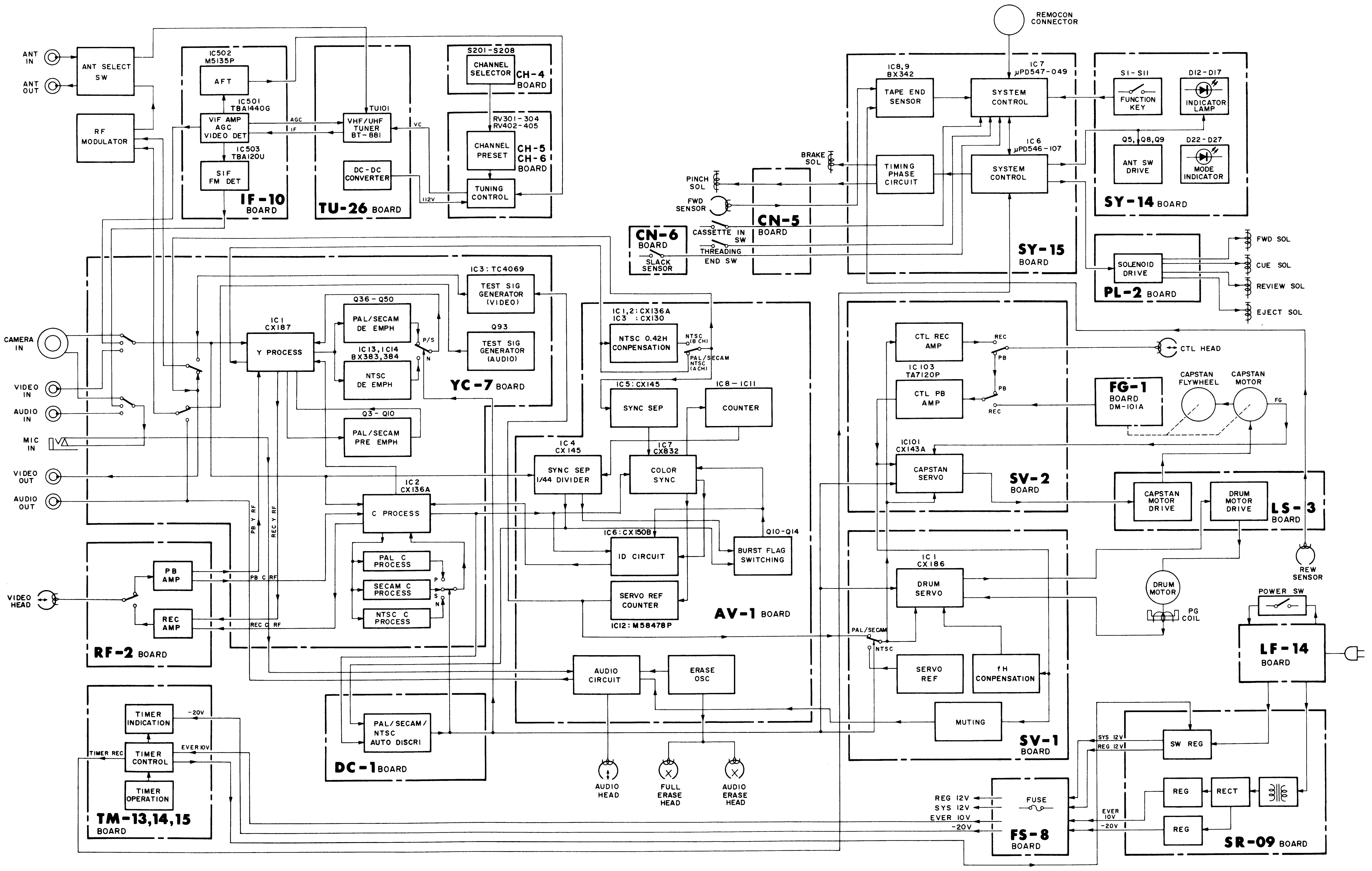
3-1. CIRCUIT BOARDS LOCATION


FS-8
CN-6
SR-09-1
CN-5
TM-13
RF-2
TM-14
DC-1
SR-09-2
LF-14
TM-15
CH-6
PL-2
CH-5
TU-26
SY-14
IF-10
CH-4

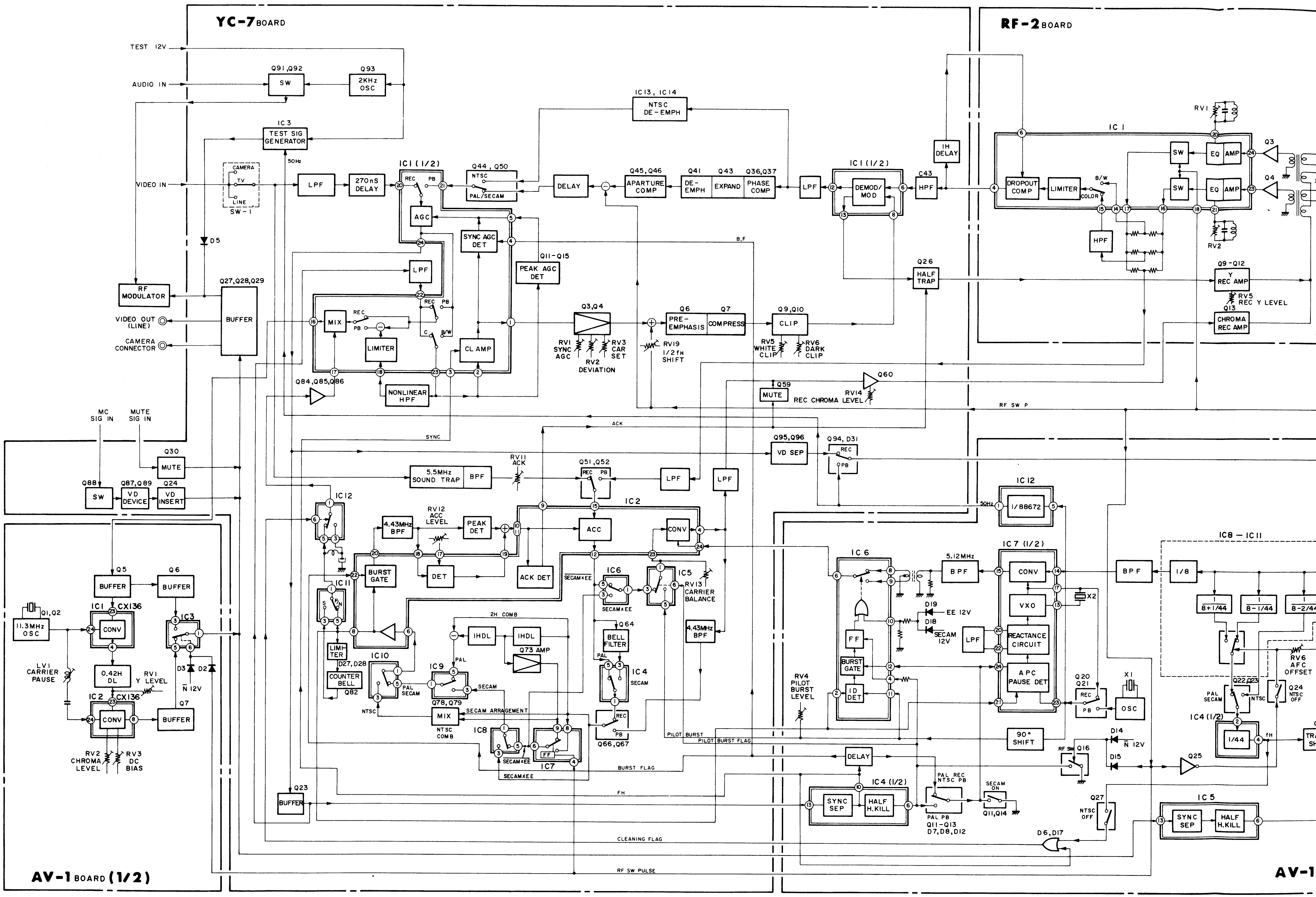

SY-15
LS-3
FG-1
SV-2
SV-1
AV-1
YC-7

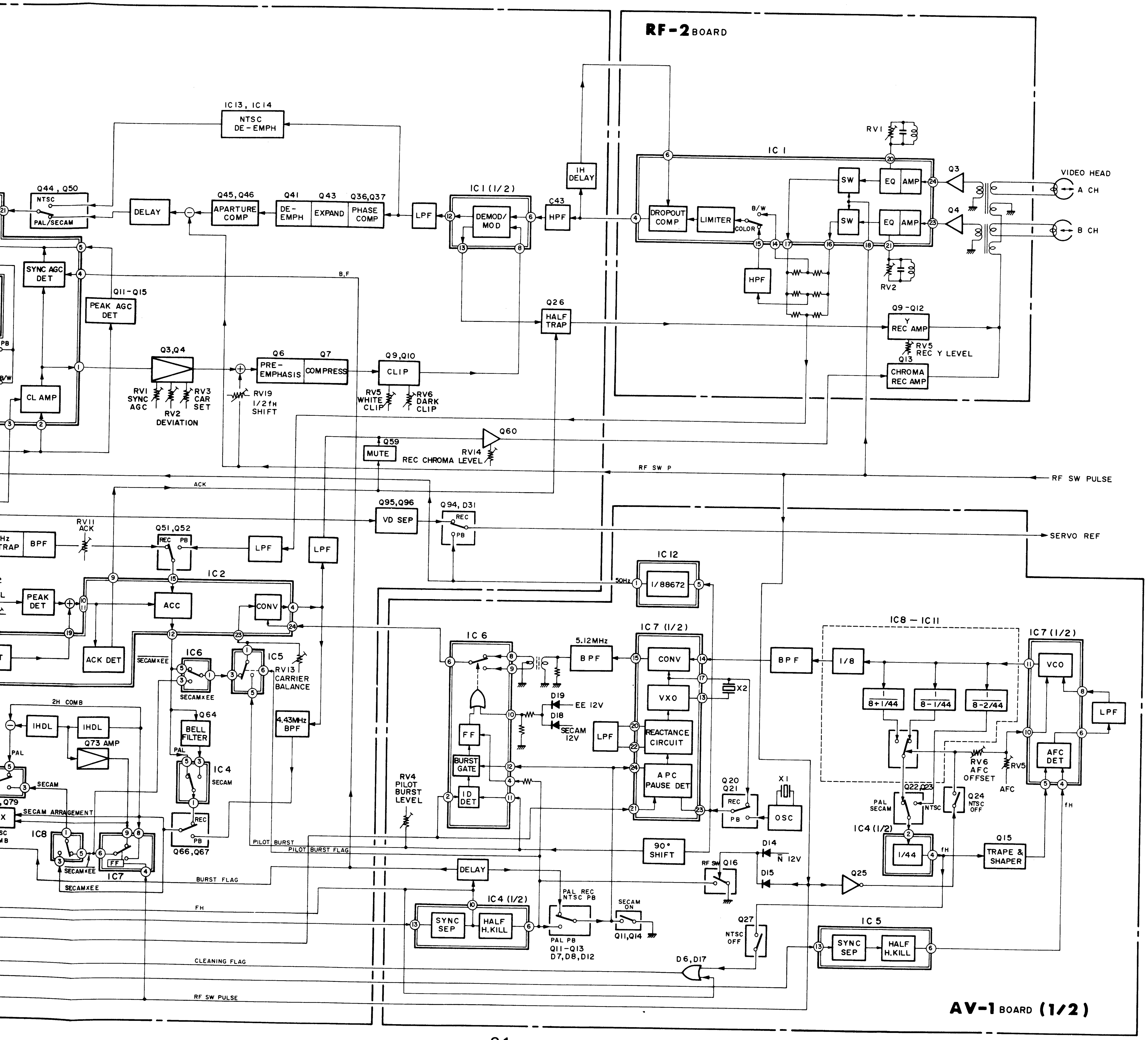
3-2. BLOCK DIAGRAMS

OVERALL BLOCK DIAGRAM

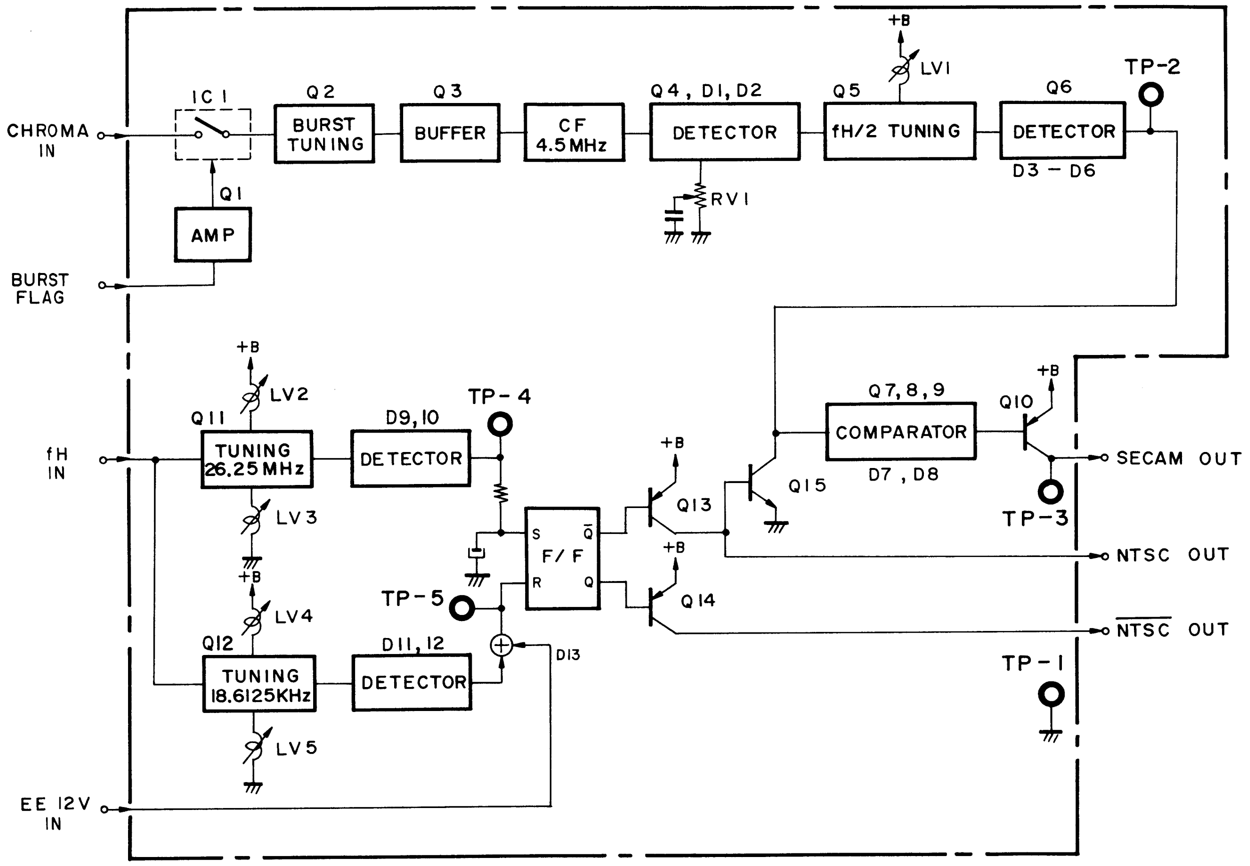

ANT IN
ANT OUT
ANT SELECT SW
RF MODULATOR
IC502 M5135P
AFT
IC501 TBA1440G
VIF AMP AGC VIDEO DET
IC503 TBA120U
SIF FM DET
IF-10 BOARD
AGC
IF
TU101
VHF/UHF TUNER BT-881
DC-DC CONVERTER
TU-26 BOARD
VC
112V
S201-S208
CHANNEL SELECTOR
CH-4 BOARD
RV301-304 RV402-405
CHANNEL PRESET
CH-5 CH-6 BOARD
TUNING CONTROL
REMOCON CONNECTOR
IC8,9 BX342
TAPE END SENSOR
IC7 μPD547-049
SYSTEM CONTROL
IC6 μPD546-107
SYSTEM CONTROL
TIMING PHASE CIRCUIT
BRAKE SOL
PINCH SOL
FWD SENSOR
CN-5 BOARD
CN-6 BOARD
SLACK SENSOR
CASSETTE IN SW
THREADING END SW
SY-15 BOARD
S1-S11
FUNCTION KEY
D12-D17
INDICATOR LAMP
Q5,Q8,Q9
ANT SW DRIVE
D22-D27
MODE INDICATOR
SY-14 BOARD
SOLENOID DRIVE
PL-2 BOARD
FWD SOL
CUE SOL
REVIEW SOL
EJECT SOL
CAMERA IN
VIDEO IN
AUDIO IN
MIC IN
VIDEO OUT
AUDIO OUT
IC1 CX187
Y PROCESS
Q36-Q50
PAL/SECAM DE EMPH
IC13,IC14 BX383,384
NTSC DE EMPH
P/S
N
Q3-Q10
PAL/SECAM PRE EMPH
IC3: TC4069
TEST SIG GENERATOR (VIDEO)
Q93
TEST SIG GENERATOR (AUDIO)
YC-7 BOARD
IC2 CX136A
C PROCESS
PAL C PROCESS
SECAM C PROCESS
NTSC C PROCESS
P
S
N
PB Y RF
REC Y RF
PB C RF
REC C RF
VIDEO HEAD
PB AMP
REC AMP
RF-2 BOARD
IC1,2: CX136A
IC3 : CX130
NTSC 0.42H CONPENSATION
NTSC (B CH)
PAL/SECAM
NTSC (A CH)
IC5: CX145
SYNC SEP
IC8-IC11
COUNTER
IC4 CX145
SYNC SEP 1/44 DIVIDER
IC7 CX832
COLOR SYNC
Q10-Q14
BURST FLAG SWITCHING
IC6: CX150B
ID CIRCUIT
SERVO REF COUNTER
IC12: M58478P
AV-1 BOARD
AUDIO CIRCUIT
ERASE OSC
AUDIO HEAD
FULL ERASE HEAD
AUDIO ERASE HEAD
PAL/SECAM/ NTSC AUTO DISCRI
DC-1 BOARD
TIMER INDICATION
-20V
TIMER REC
EVER 10V
TIMER CONTROL
TIMER OPERATION
TM-13,14,15 BOARD
CTL REC AMP
REC
PB
IC103 TA7120P
CTL PB AMP
IC101 CX143A
CAPSTAN SERVO
SV-2 BOARD
CTL HEAD
FG-1 BOARD DM-101A
CAPSTAN FLYWHEEL
CAPSTAN MOTOR
FG
CAPSTAN MOTOR DRIVE
DRUM MOTOR DRIVE
LS-3 BOARD
REW SENSOR
IC1 CX186
DRUM SERVO
DRUM MOTOR
PG COIL
PAL/SECAM
NTSC
SERVO REF
fH CONPENSATION
MUTING
SV-1 BOARD
POWER SW
LF-14 BOARD
SYS 12V
REG 12V
SW REG
REG
RECT
EVER 10V
-20V
SR-09 BOARD
REG 12V
SYS 12V
EVER 10V
-20V
FUSE
FS-8 BOARD

VIDEO SYSTEM BLOCK DIAGRAM

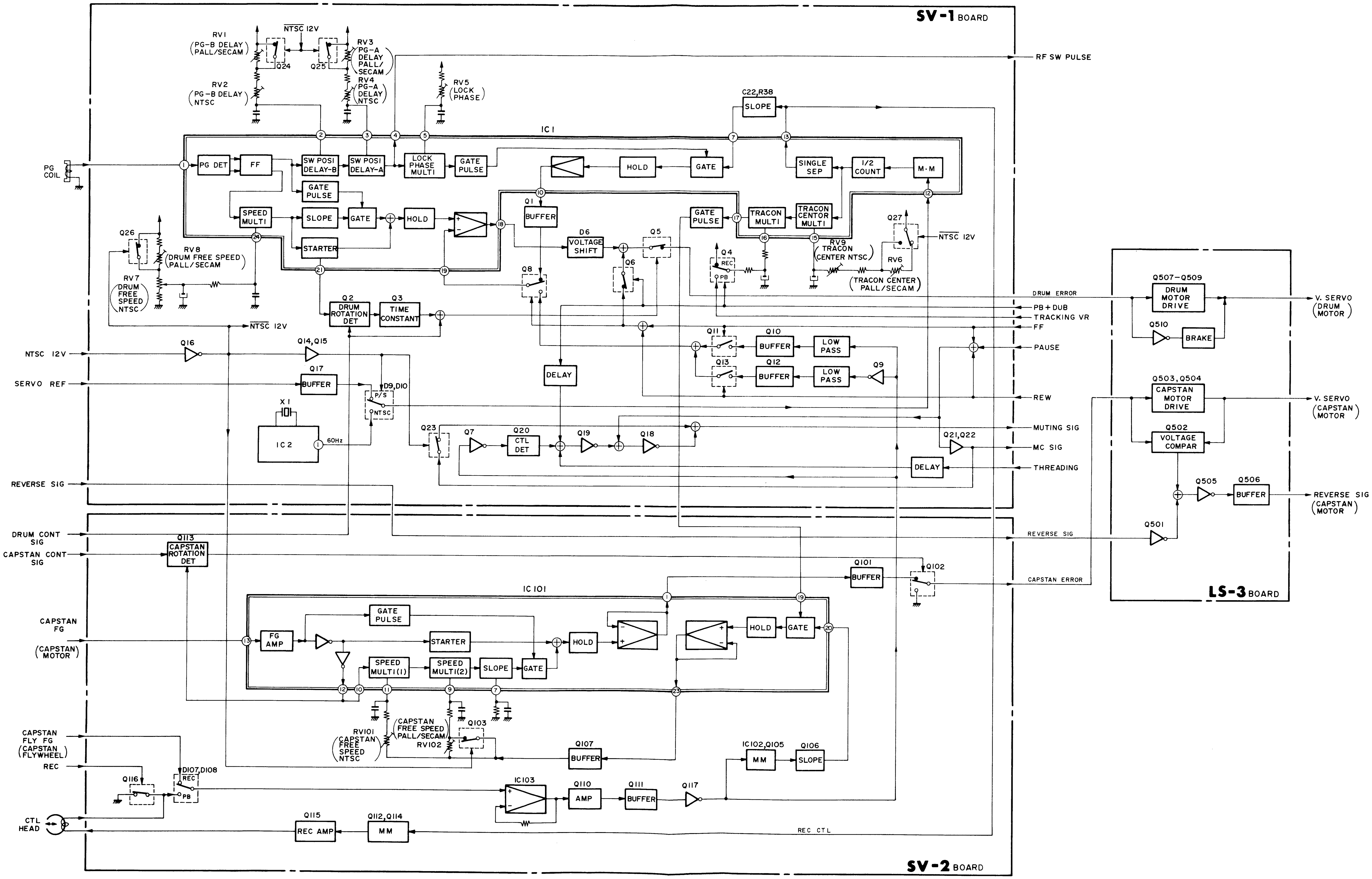

YC-7 BOARD
RF-2 BOARD
AV-1 BOARD (1/2)
AV-1
TEST 12V
AUDIO IN
VIDEO IN
Q91,Q92
SW
Q93
2KHz OSC
IC3
TEST SIG GENERATOR
50Hz
CAMERA
TV
LINE
SW-1
D5
RF MODULATOR
VIDEO OUT (LINE)
CAMERA CONNECTOR
Q27,Q28,Q29
BUFFER
LPF
270nS DELAY
IC1 (1/2)
REC
PB
AGC
SYNC AGC DET
Q44,Q50
NTSC
PAL/SECAM
IC13, IC14
NTSC DE-EMPH
DELAY
Q45,Q46
APARTURE COMP
Q41
DE-EMPH
Q43
EXPAND
Q36,Q37
PHASE COMP
DEMOD/MOD
C43
HPF
1H DELAY
Q26
HALF TRAP
IC1
DROPOUT COMP
LIMITER
B/W
COLOR
EQ AMP
Q3
Q4
RV1
RV2
Q9-Q12
Y REC AMP
RV5 REC Y LEVEL
Q13
CHROMA REC AMP
Q11-Q15
PEAK AGC DET
B.F
MIX
LIMITER
CL AMP
NONLINEAR HPF
Q84,Q85,Q86
Q3,Q4
RV1 SYNC AGC
RV2 DEVIATION
RV3 CAR SET
RV19 1/2fH SHIFT
Q6
PRE-EMPHASIS
Q7
COMPRESS
Q9,Q10
CLIP
RV5 WHITE CLIP
RV6 DARK CLIP
Q60
RV14 REC CHROMA LEVEL
Q59
MUTE
RF SW P
ACK
SYNC
MC SIG IN
MUTE SIG IN
Q30
MUTE
Q88
SW
Q87,Q89
VD DEVICE
Q24
VD INSERT
Q95,Q96
VD SEP
Q94, D31
5.5MHz SOUND TRAP
BPF
RV11 ACK
Q51,Q52
IC12
1/88672
IC2
4.43MHz BPF
RV12 ACC LEVEL
PEAK DET
ACC
CONV
DET
ACK DET
BURST GATE
IC11
LIMITER
D27,D28
COUNTER BELL
Q82
IC10
PAL SECAM
NTSC
IC6
SECAM×EE
IC5
RV13 CARRIER BALANCE
4.43MHz BPF
Q64
BELL FILTER
IC4
SECAM
2H COMB
1HDL
Q73 AMP
IC9
PAL
Q78,Q79
MIX
NTSC COMB
SECAM ARRAGEMENT
IC8
IC7
FF
Q66,Q67
PILOT BURST
PILOT BURST FLAG
BURST FLAG
SECAM×EE
FH
CLEANING FLAG
RF SW PULSE
Q23
BUFFER
Q5
BUFFER
Q6
BUFFER
11.3MHz OSC
Q1,Q2
IC1 CX136
CONV
LV1 CARRIER PAUSE
0.42H DL
RV1 Y LEVEL
IC2 CX136
IC3
D3
D2
N 12V
Q7
BUFFER
RV2 CHROMA LEVEL
RV3 DC BIAS
RV4 PILOT BURST LEVEL
FF
BURST GATE
ID DET
5.12MHz
BPF
IC7 (1/2)
CONV
VXO
X2
D19
EE 12V
D18
SECAM 12V
REACTANCE CIRCUIT
APC PAUSE DET
LPF
Q20 Q21
X1
OSC
90° SHIFT
D14
D15
Q25
RF SW Q16
DELAY
IC4 (1/2)
SYNC SEP
HALF H.KILL
PAL REC NTSC PB
PAL PB
Q11-Q13 D7,D8,D12
SECAM ON
Q11,Q14
Q27
NTSC OFF
D6,D17
IC5
IC8 - IC11
1/8
8+1/44
8-1/44
8-2/44
RV6 AFC OFFSET
Q22,Q23
Q24 NTSC OFF
IC4 (1/2)
1/44
fH


RF-2 BOARD
AV-1 BOARD (1/2)
IC13, IC14
NTSC DE-EMPH
Q44, Q50
NTSC
PAL/SECAM
DELAY
Q45, Q46
APARTURE COMP
Q41
DE-EMPH
Q43
EXPAND
Q36,Q37
PHASE COMP
LPF
IC1 (1/2)
DEMOD/MOD
C43
HPF
1H DELAY
IC1
DROPOUT COMP
LIMITER
B/W
COLOR
SW
EQ AMP
RV1
RV2
Q3
Q4
VIDEO HEAD
A CH
B CH
HPF
Q26
HALF TRAP
Q9-Q12
Y REC AMP
RV5 REC Y LEVEL
Q13
CHROMA REC AMP
SYNC AGC DET
Q11-Q15
PEAK AGC DET
B.F
Q3,Q4
RV1 SYNC AGC
RV2 DEVIATION
RV3 CAR SET
RV19 1/2fH SHIFT
Q6
PRE-EMPHASIS
Q7
COMPRESS
Q9,Q10
CLIP
RV5 WHITE CLIP
RV6 DARK CLIP
CL AMP
B/W
PB
Q60
Q59
MUTE
RV14 REC CHROMA LEVEL
RF SW P
RF SW PULSE
ACK
Q95,Q96
VD SEP
Q94, D31
REC
PB
SERVO REF
RV11 ACK
Hz TRAP
BPF
Q51,Q52
REC PB
LPF
LPF
IC2
PEAK DET
ACC
CONV
ACK DET
SECAM×EE
IC6
SECAM×EE
IC5
RV13 CARRIER BALANCE
Q64
BELL FILTER
PAL
IC4
SECAM
4.43MHz BPF
2H COMB
1HDL
1HDL
Q73 AMP
PAL
SECAM
Q79
SECAM ARRAGEMENT
IC8
SECAM×EE
FF
IC7
REC
PB
Q66,Q67
PILOT BURST
PILOT BURST FLAG
BURST FLAG
SECAM×EE
FH
CLEANING FLAG
RF SW PULSE
IC12
50Hz
1/88672
IC6
5.12MHz
BPF
IC7 (1/2)
CONV
VXO
X2
D19
EE 12V
D18
SECAM 12V
LPF
REACTANCE CIRCUIT
APC PAUSE DET
FF
BURST GATE
ID DET
RV4 PILOT BURST LEVEL
Q20 Q21
REC
PB
X1
OSC
90° SHIFT
RF SW Q16
D14
N 12V
D15
Q25
DELAY
IC4 (1/2)
SYNC SEP
HALF H.KILL
PAL REC NTSC PB
PAL PB
Q11-Q13 D7,D8,D12
SECAM ON
Q11,Q14
Q27
NTSC OFF
D6,D17
IC8 - IC11
BPF
1/8
1/8+1/44
1/8-1/44
1/8-2/44
IC7 (1/2)
VCO
LPF
AFC DET
RV6 AFC OFFSET
RV5 AFC
fH
Q22,Q23
PAL SECAM
NTSC
Q24 NTSC OFF
IC4 (1/2)
1/44
fH
Q15
TRAPE & SHAPER
IC5
SYNC SEP
HALF H.KILL

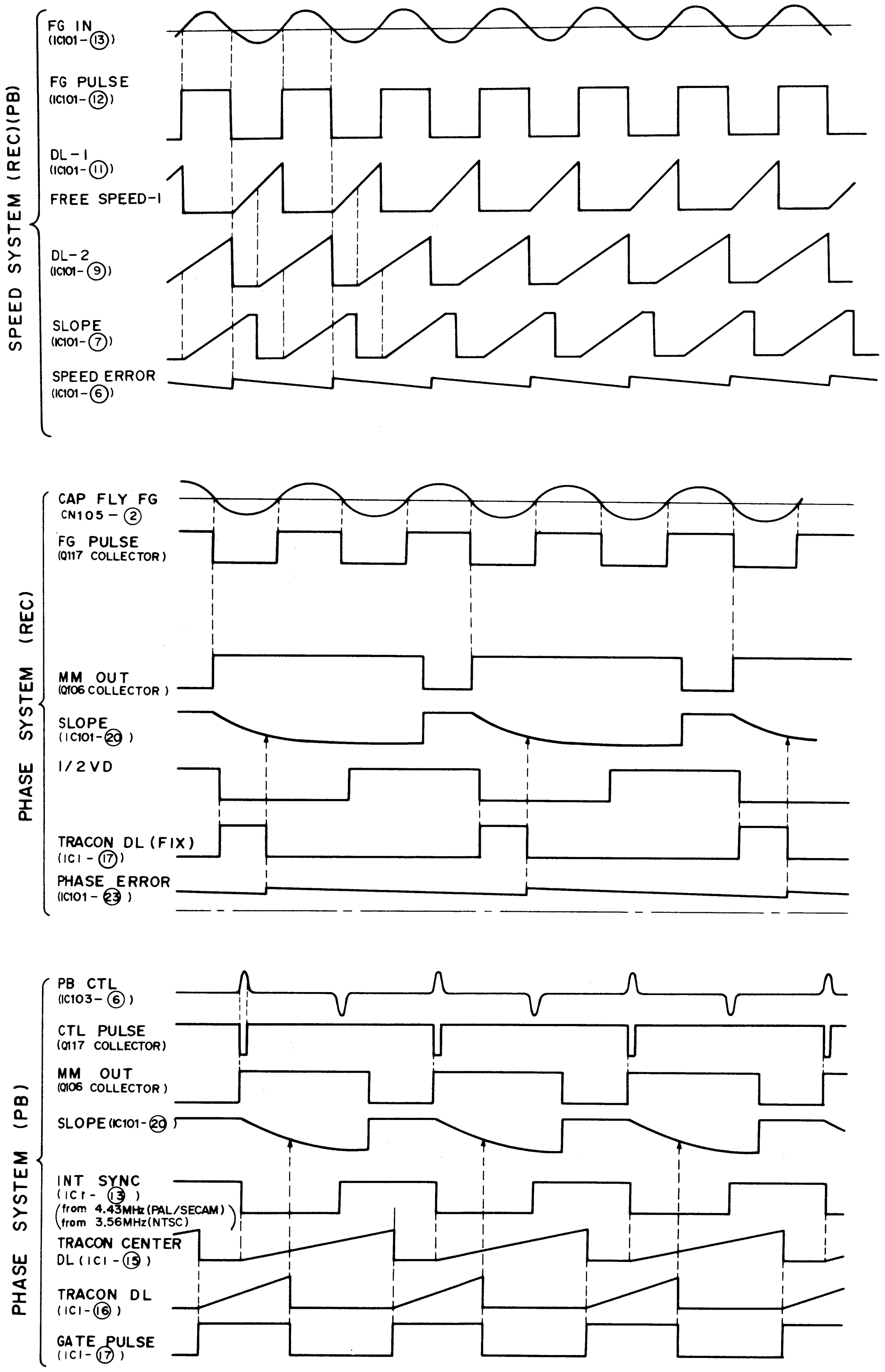
COLOR SYSTEM DISCRIMINATION BLOCK DIAGRAM


CHROMA IN
BURST FLAG
fH IN
EE 12V IN
IC 1
Q1
AMP
Q2
BURST TUNING
Q3
BUFFER
CF 4.5MHz
Q4, D1, D2
DETECTOR
RV1
+B
LV1
Q5
fH/2 TUNING
Q6
DETECTOR
D3 – D6
TP-2
+B
LV2
Q11
TUNING 26.25MHz
LV3
D9, 10
DETECTOR
TP-4
+B
LV4
Q12
TUNING 18.6125KHz
LV5
D11, 12
DETECTOR
D13
TP-5
S
Q̄
F/F
R
Q
+B
Q13
+B
Q14
Q15
Q7, 8, 9
COMPARATOR
D7, D8
+B
Q10
TP-3
SECAM OUT
NTSC OUT
NTSC OUT
TP-1

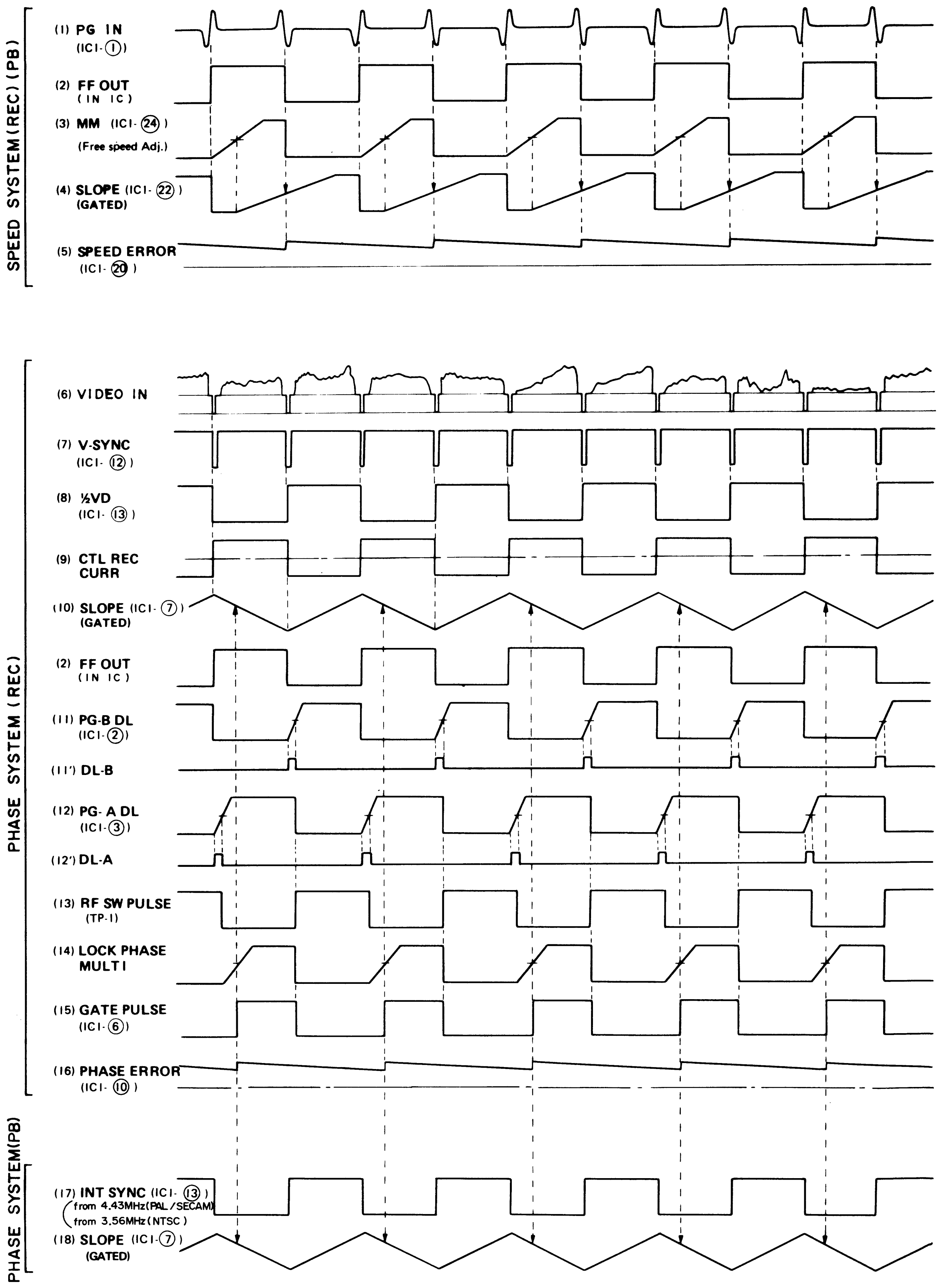
SERVO BLOCK DIAGRAM


SV-1 BOARD
SV-2 BOARD
LS-3 BOARD
IC 1
IC 101
RV1 (PG-B DELAY PALL/SECAM)
RV2 (PG-B DELAY NTSC)
RV3 (PG-A DELAY PALL/SECAM)
RV4 (PG-A DELAY NTSC)
RV5 (LOCK PHASE)
NTSC 12V
Q24
Q25
RF SW PULSE
C22, R38
SLOPE
PG COIL
PG DET
FF
SW POSI DELAY-B
SW POSI DELAY-A
LOCK PHASE MULTI
GATE PULSE
HOLD
GATE
SINGLE SEP
1/2 COUNT
M·M
SPEED MULTI
SLOPE
GATE
HOLD
STARTER
Q1
BUFFER
D6
VOLTAGE SHIFT
Q5
Q6
GATE PULSE
TRACON MULTI
TRACON CENTOR MULTI
Q27
NTSC 12V
Q26
RV8 (DRUM FREE SPEED PALL/SECAM)
RV7 (DRUM FREE SPEED NTSC)
Q4
REC
PB
RV9 (TRACON CENTER NTSC)
RV6 (TRACON CENTER PALL/SECAM)
Q8
Q2
DRUM ROTATION DET
Q3
TIME CONSTANT
NTSC 12V
DRUM ERROR
PB + DUB
TRACKING VR
FF
PAUSE
REW
MUTING SIG
MC SIG
THREADING
NTSC 12V
Q16
Q14, Q15
SERVO REF
Q17
BUFFER
D9, D10
P/S
NTSC
X1
IC 2
60Hz
Q11
Q10
BUFFER
LOW PASS
Q13
Q12
BUFFER
LOW PASS
Q9
DELAY
Q23
Q7
Q20
CTL DET
Q19
Q18
Q21, Q22
DELAY
REVERSE SIG
Q507–Q509
DRUM MOTOR DRIVE
Q510
BRAKE
V. SERVO (DRUM MOTOR)
Q503, Q504
CAPSTAN MOTOR DRIVE
V. SERVO (CAPSTAN MOTOR)
Q502
VOLTAGE COMPAR
Q505
Q506
BUFFER
REVERSE SIG (CAPSTAN MOTOR)
Q501
DRUM CONT SIG
CAPSTAN CONT SIG
Q113
CAPSTAN ROTATION DET
REVERSE SIG
Q101
BUFFER
Q102
CAPSTAN ERROR
CAPSTAN FG (CAPSTAN MOTOR)
FG AMP
GATE PULSE
STARTER
HOLD
HOLD
GATE
SPEED MULTI(1)
SPEED MULTI(2)
SLOPE
GATE
RV101 (CAPSTAN FREE SPEED NTSC)
RV102 (CAPSTAN FREE SPEED PALL/SECAM)
Q103
Q107
BUFFER
IC102, Q105
MM
Q106
SLOPE
CAPSTAN FLY FG (CAPSTAN FLYWHEEL)
REC
Q116
D107, D108
REC
PB
IC103
Q110
AMP
Q111
BUFFER
Q117
CTL HEAD
Q115
REC AMP
Q112, Q114
MM
REC CTL

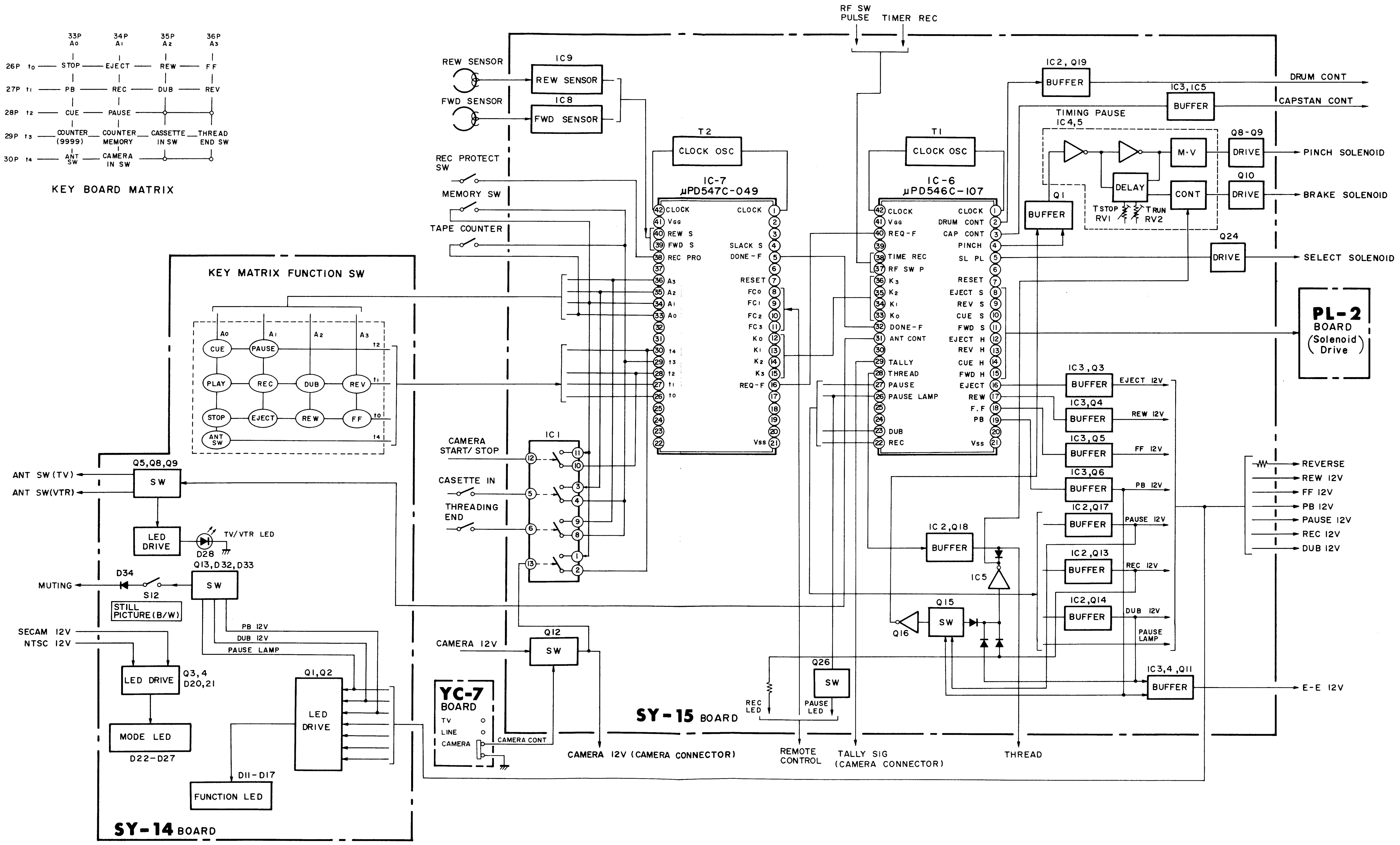
CAPSTAN SERVO TIMING CHART


SPEED SYSTEM (REC)(PB)
FG IN (IC101-⑬)
FG PULSE (IC101-⑫)
DL-1 (IC101-⑪)
FREE SPEED-1
DL-2 (IC101-⑨)
SLOPE (IC101-⑦)
SPEED ERROR (IC101-⑥)
PHASE SYSTEM (REC)
CAP FLY FG CN105-②
FG PULSE (Q117 COLLECTOR)
MM OUT (Q106 COLLECTOR)
SLOPE (IC101-⑳)
1/2VD
TRACON DL (FIX) (IC1-⑰)
PHASE ERROR (IC101-㉓)
PHASE SYSTEM (PB)
PB CTL (IC103-⑥)
CTL PULSE (Q117 COLLECTOR)
MM OUT (Q106 COLLECTOR)
SLOPE (IC101-⑳)
INT SYNC (IC1-⑬) (from 4.43MHz (PAL/SECAM) from 3.56MHz (NTSC))
TRACON CENTER DL (IC1-⑮)
TRACON DL (IC1-⑯)
GATE PULSE (IC1-⑰)

DRUM SERVO TIMING CHART

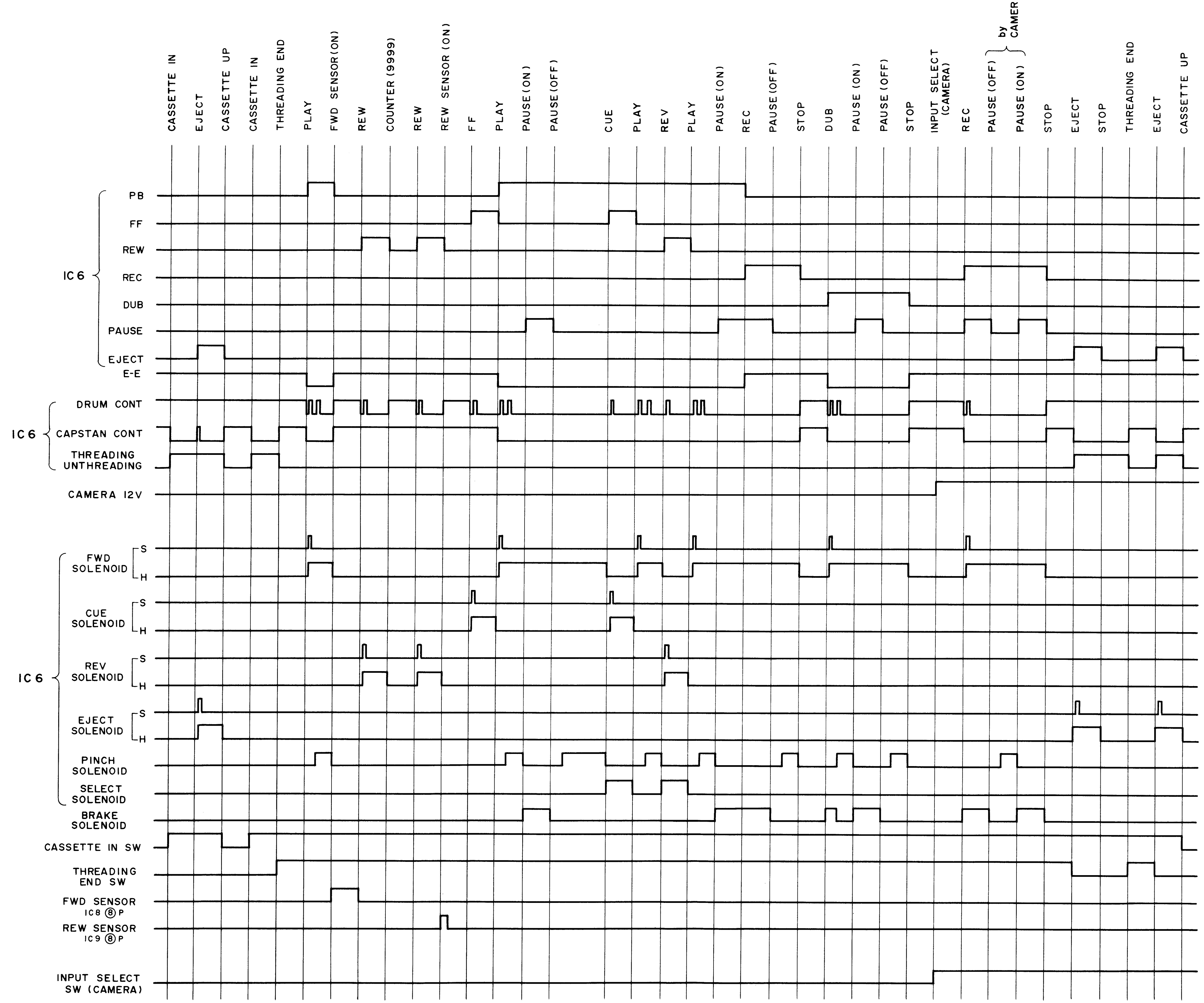

SPEED SYSTEM (REC) (PB)
(1) PG IN (IC1-①)
(2) FF OUT (IN IC)
(3) MM (IC1-㉔) (Free speed Adj.)
(4) SLOPE (IC1-㉒) (GATED)
(5) SPEED ERROR (IC1-⑳)
PHASE SYSTEM (REC)
(6) VIDEO IN
(7) V-SYNC (IC1-⑫)
(8) ½VD (IC1-⑬)
(9) CTL REC CURR
(10) SLOPE (IC1-⑦) (GATED)
(2) FF OUT (IN IC)
(11) PG-B DL (IC1-②)
(11') DL-B
(12) PG-A DL (IC1-③)
(12') DL-A
(13) RF SW PULSE (TP-1)
(14) LOCK PHASE MULTI
(15) GATE PULSE (IC1-⑥)
(16) PHASE ERROR (IC1-⑩)
PHASE SYSTEM (PB)
(17) INT SYNC (IC1-⑬) (from 4.43MHz (PAL/SECAM) from 3.56MHz (NTSC))
(18) SLOPE (IC1-⑦) (GATED)

SYSTEM CONTROL BLOCK DIAGRAM



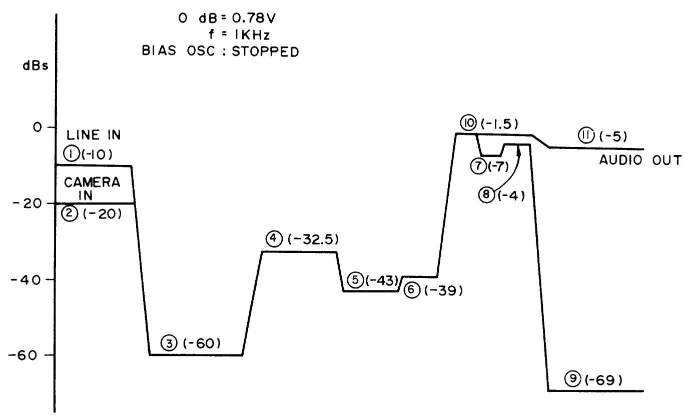
33P A0
34P A1
35P A2
36P A3
26P t0 STOP EJECT REW FF
27P t1 PB REC DUB REV
28P t2 CUE PAUSE
29P t3 COUNTER (9999) COUNTER MEMORY CASSETTE IN SW THREAD END SW
30P t4 ANT SW CAMERA IN SW
KEY BOARD MATRIX
KEY MATRIX FUNCTION SW
CUE PAUSE PLAY REC DUB REV STOP EJECT REW FF ANT SW
ANT SW (TV)
ANT SW(VTR)
Q5,Q8,Q9 SW
LED DRIVE
TV/VTR LED D28
MUTING
D34
S12
STILL PICTURE (B/W)
Q13,D32,D33 SW
PB 12V
DUB 12V
PAUSE LAMP
SECAM 12V
NTSC 12V
LED DRIVE Q3,4 D20,21
MODE LED D22-D27
Q1,Q2 LED DRIVE
D11-D17
FUNCTION LED
SY-14 BOARD
REW SENSOR
FWD SENSOR
IC9 REW SENSOR
IC8 FWD SENSOR
REC PROTECT SW
MEMORY SW
TAPE COUNTER
CAMERA START/STOP
CASETTE IN
THREADING END
IC1
CAMERA 12V
Q12 SW
YC-7 BOARD
TV LINE CAMERA
CAMERA CONT
CAMERA 12V (CAMERA CONNECTOR)
T2 CLOCK OSC
IC-7 μPD547C-049
CLOCK VGG REW S FWD S REC PRO A3 A2 A1 A0 t4 t3 t2 t1 t0
CLOCK SLACK S DONE-F RESET FC0 FC1 FC2 FC3 K0 K1 K2 K3 REQ-F VSS
RF SW PULSE
TIMER REC
T1 CLOCK OSC
IC-6 μPD546C-107
CLOCK VGG REQ-F TIME REC RF SW P K3 K2 K1 K0 DONE-F ANT CONT TALLY THREAD PAUSE PAUSE LAMP DUB REC
CLOCK DRUM CONT CAP CONT PINCH SL PL RESET EJECT S REV S CUE S FWD S EJECT H REV H CUE H FWD H EJECT REW F.F PB VSS
SY-15 BOARD
REC LED
Q26 SW
PAUSE LED
REMOTE CONTROL
TALLY SIG (CAMERA CONNECTOR)
THREAD
IC2, Q19 BUFFER
IC3, IC5 BUFFER
TIMING PAUSE IC4,5
M·V
DELAY
CONT
Q1 BUFFER
T STOP RV1
T RUN RV2
Q8-Q9 DRIVE
Q10 DRIVE
Q24 DRIVE
DRUM CONT
CAPSTAN CONT
PINCH SOLENOID
BRAKE SOLENOID
SELECT SOLENOID
PL-2 BOARD (Solenoid Drive)
IC3,Q3 BUFFER EJECT 12V
IC3,Q4 BUFFER REW 12V
IC3,Q5 BUFFER FF 12V
IC3,Q6 BUFFER PB 12V
IC2,Q17 BUFFER PAUSE 12V
IC2,Q13 BUFFER REC 12V
IC2,Q14 BUFFER DUB 12V PAUSE LAMP
IC2,Q18 BUFFER
IC5
Q15 SW
Q16
IC3,4,Q11 BUFFER
REVERSE
REW 12V
FF 12V
PB 12V
PAUSE 12V
REC 12V
DUB 12V
E-E 12V

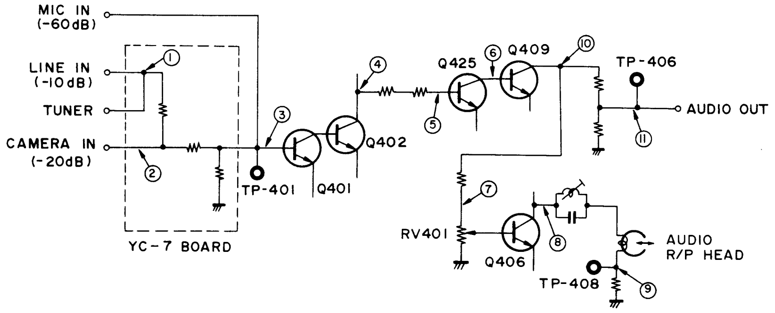
SYSTEM CONTROL TIMING CHART



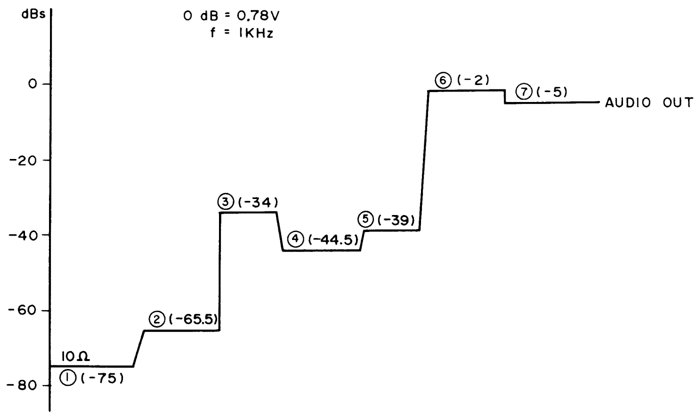
AUDIO LEVEL DIAGRAM

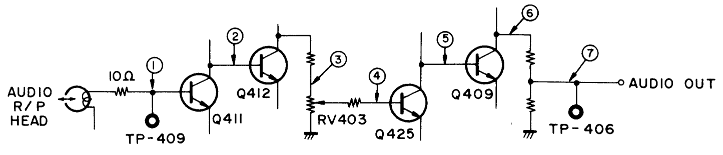
– REC MODE –



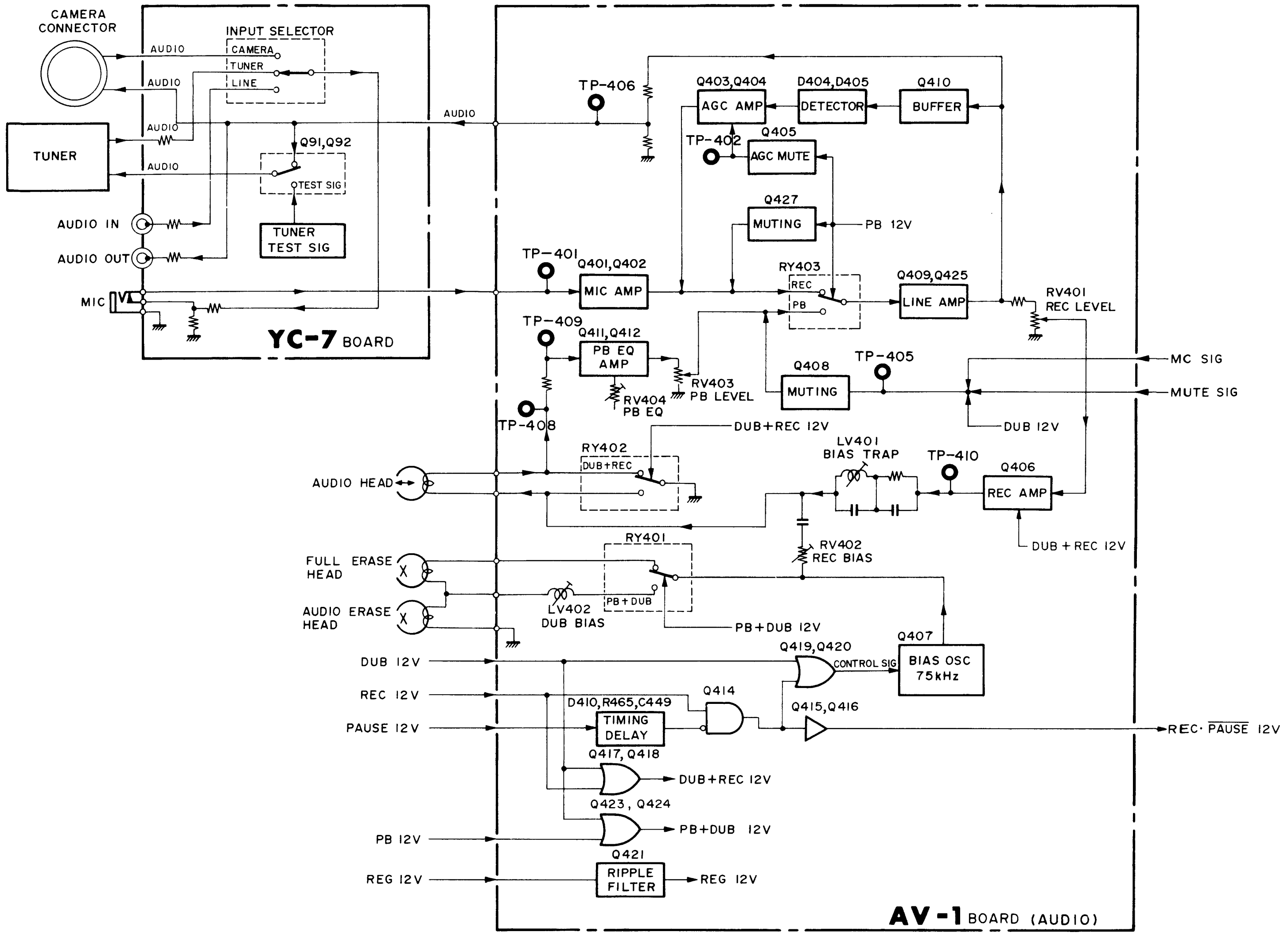

MIC IN (-60dB)
LINE IN (-10dB)
TUNER
CAMERA IN (-20dB)
YC-7 BOARD
TP-401
Q401
Q402
Q425
Q409
TP-406
AUDIO OUT
RV401
Q406
TP-408
AUDIO R/P HEAD
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪

– PB MODE –

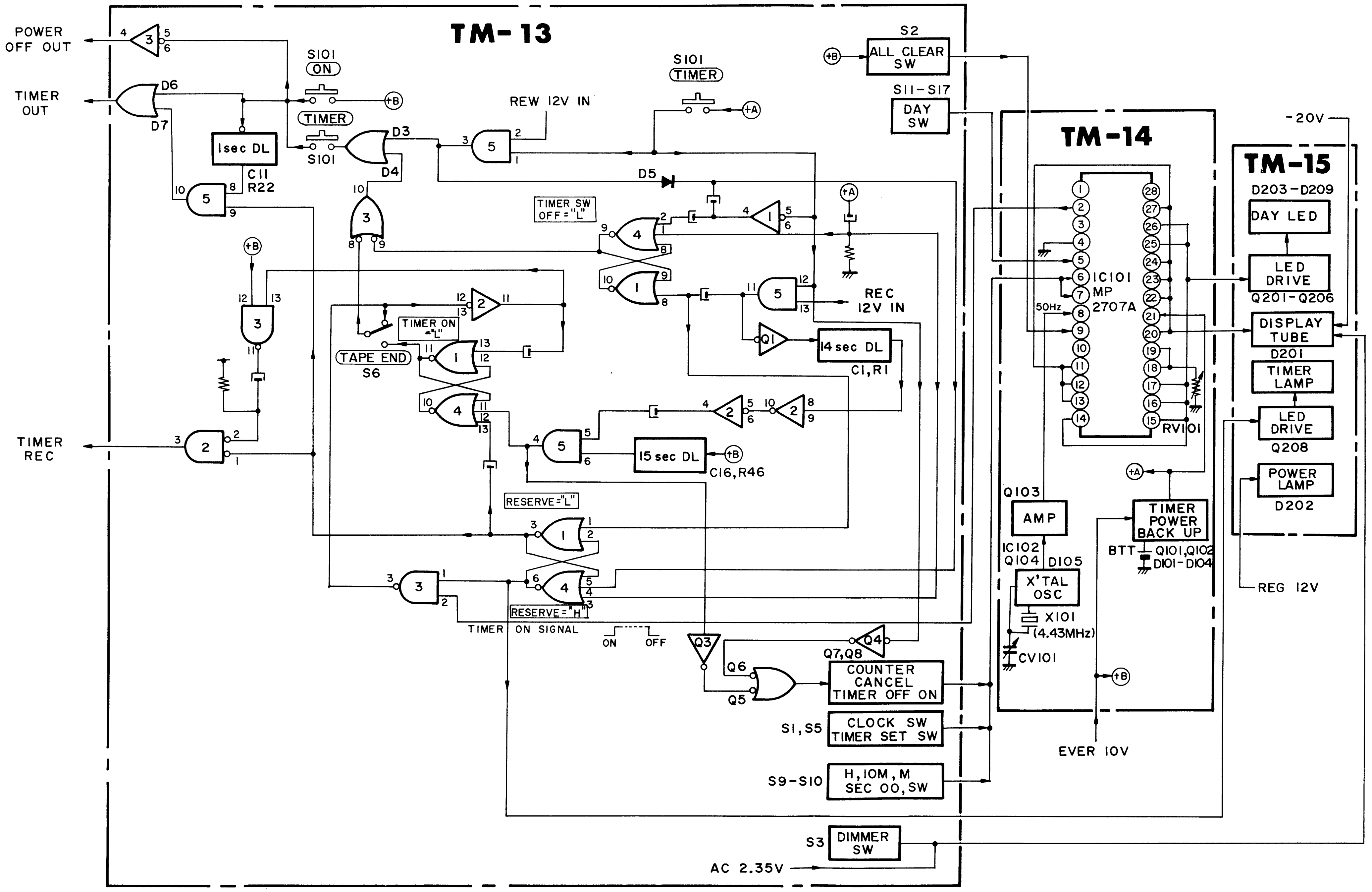



AUDIO R/P HEAD
10Ω
TP-409
Q411
Q412
RV403
Q425
Q409
TP-406
AUDIO OUT
①
②
③
④
⑤
⑥
⑦

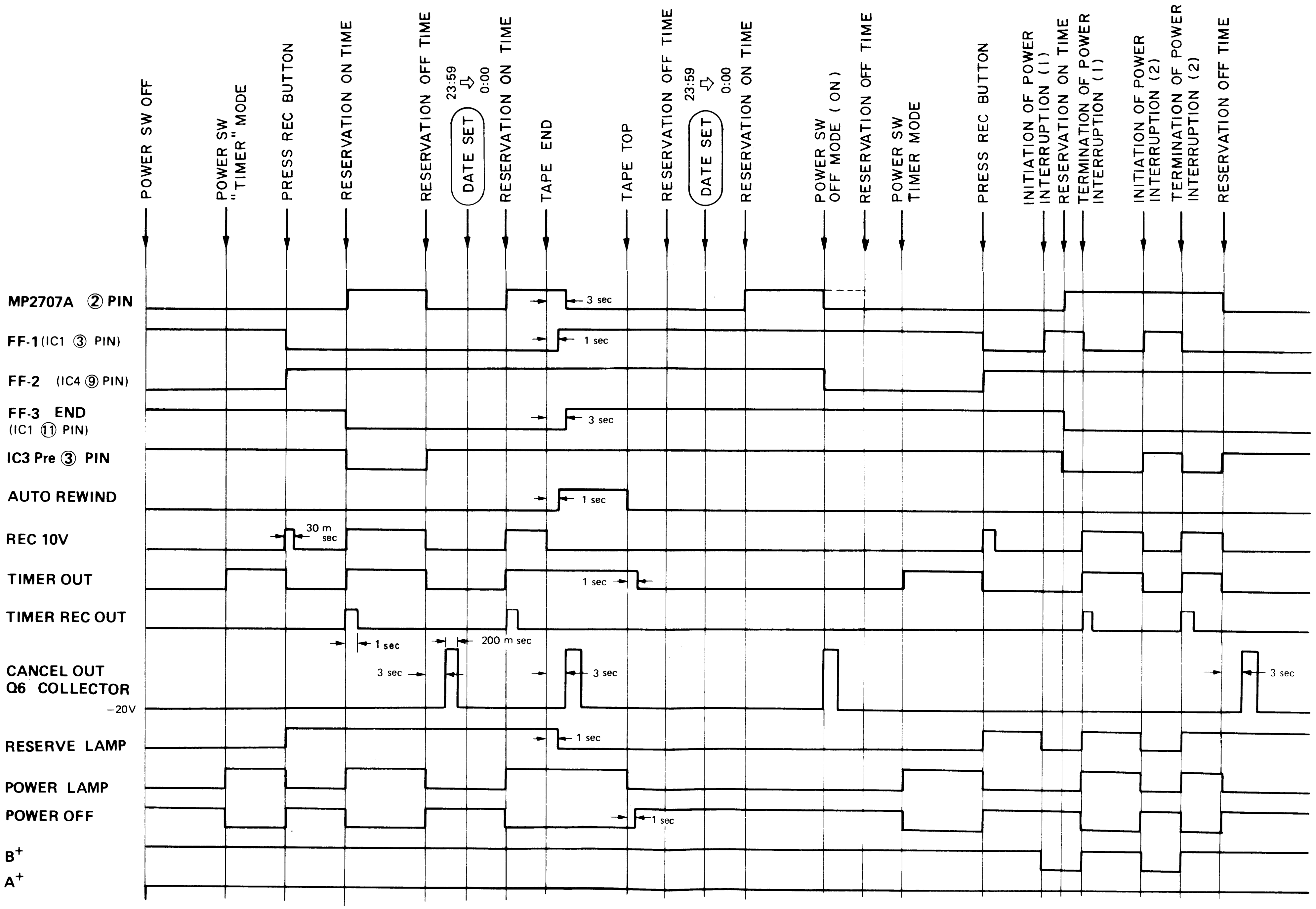
AUDIO BLOCK DIAGRAM


CAMERA CONNECTOR
TUNER
AUDIO IN
AUDIO OUT
MIC
INPUT SELECTOR
CAMERA
TUNER
LINE
AUDIO
Q91,Q92
TEST SIG
TUNER TEST SIG
YC-7 BOARD
TP-406
Q403,Q404
AGC AMP
D404,D405
DETECTOR
Q410
BUFFER
TP-402
Q405
AGC MUTE
Q427
MUTING
PB 12V
TP-401
Q401,Q402
MIC AMP
RY403
REC
PB
Q409,Q425
LINE AMP
RV401
REC LEVEL
TP-409
Q411,Q412
PB EQ AMP
RV403
PB LEVEL
RV404
PB EQ
Q408
MUTING
TP-405
MC SIG
MUTE SIG
DUB 12V
TP-408
DUB+REC 12V
RY402
DUB+REC
LV401
BIAS TRAP
TP-410
Q406
REC AMP
AUDIO HEAD
RV402
REC BIAS
DUB + REC 12V
FULL ERASE HEAD
AUDIO ERASE HEAD
RY401
PB+DUB
LV402
DUB BIAS
PB+DUB 12V
Q419,Q420
CONTROL SIG
Q407
BIAS OSC 75kHz
DUB 12V
REC 12V
PAUSE 12V
D410,R465,C449
TIMING DELAY
Q414
Q415,Q416
REC· PAUSE 12V
Q417,Q418
DUB+REC 12V
Q423, Q424
PB+DUB 12V
PB 12V
Q421
RIPPLE FILTER
REG 12V
REG 12V
AV-1 BOARD (AUDIO)

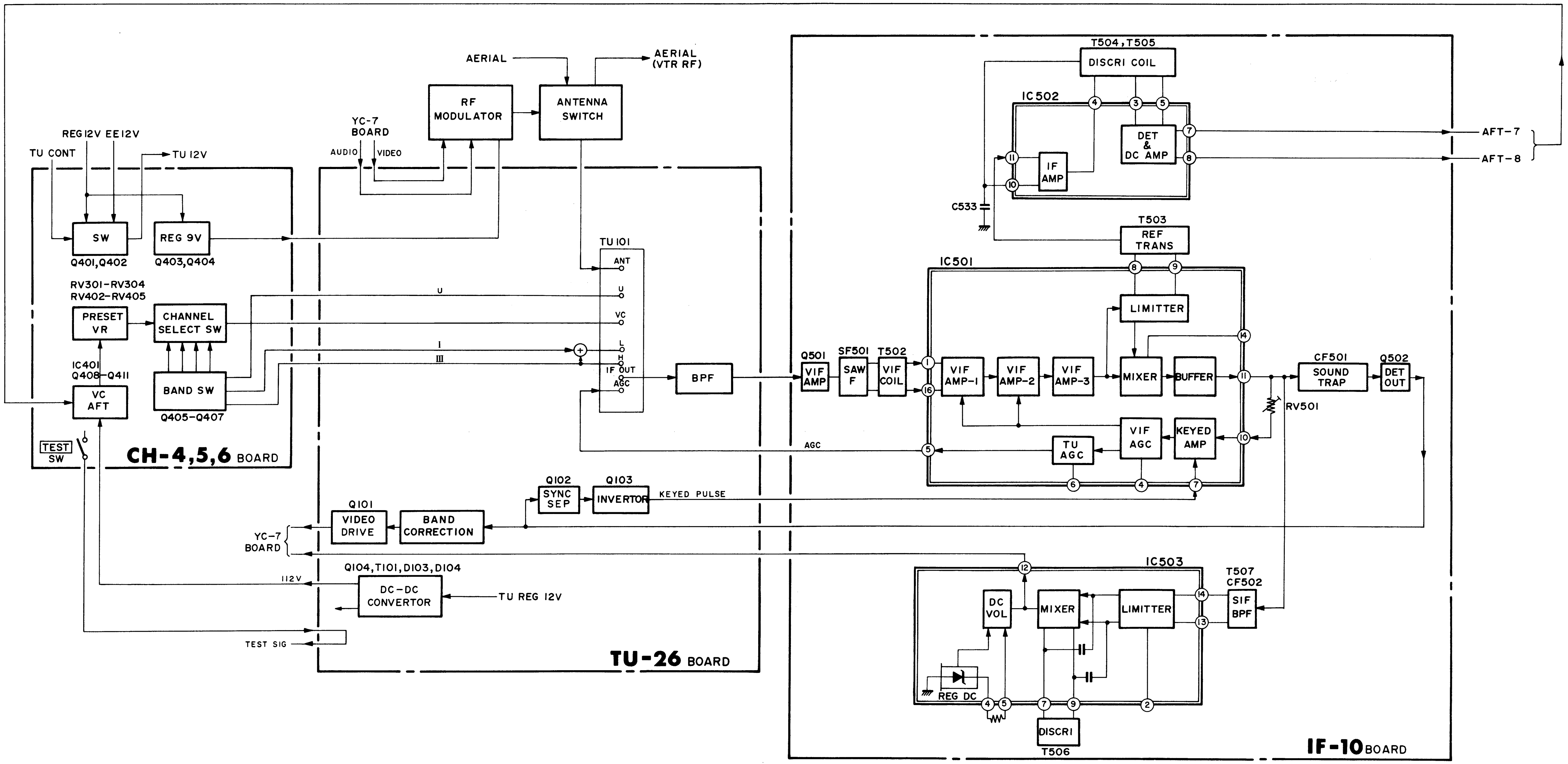
TIMER BLOCK DIAGRAM


TM-13
TM-14
TM-15
POWER OFF OUT
TIMER OUT
TIMER REC
D6
D7
1sec DL
C11 R22
S101 ON
TIMER
S101
S101 TIMER
D3
D4
REW 12V IN
D5
TIMER SW OFF = "L"
TIMER ON = "L"
TAPE END
S6
REC 12V IN
Q1
14 sec DL
C1, R1
15 sec DL
C16, R46
RESERVE = "L"
RESERVE = "H"
TIMER ON SIGNAL
ON
OFF
Q3
Q4
Q6
Q5
Q7, Q8
COUNTER CANCEL TIMER OFF ON
S1, S5
CLOCK SW TIMER SET SW
S9-S10
H, 10M, M SEC 00, SW
S3
DIMMER SW
AC 2.35V
S2
ALL CLEAR SW
S11-S17
DAY SW
IC101 MP 2707A
50Hz
RV101
Q103
AMP
IC102 Q104
D105
X'TAL OSC
X101 (4.43MHz)
CV101
TIMER POWER BACK UP
BTT
Q101, Q102 D101-D104
EVER 10V
-20V
D203-D209
DAY LED
LED DRIVE
Q201-Q206
DISPLAY TUBE
D201
TIMER LAMP
LED DRIVE
Q208
POWER LAMP
D202
REG 12V
+A
+B

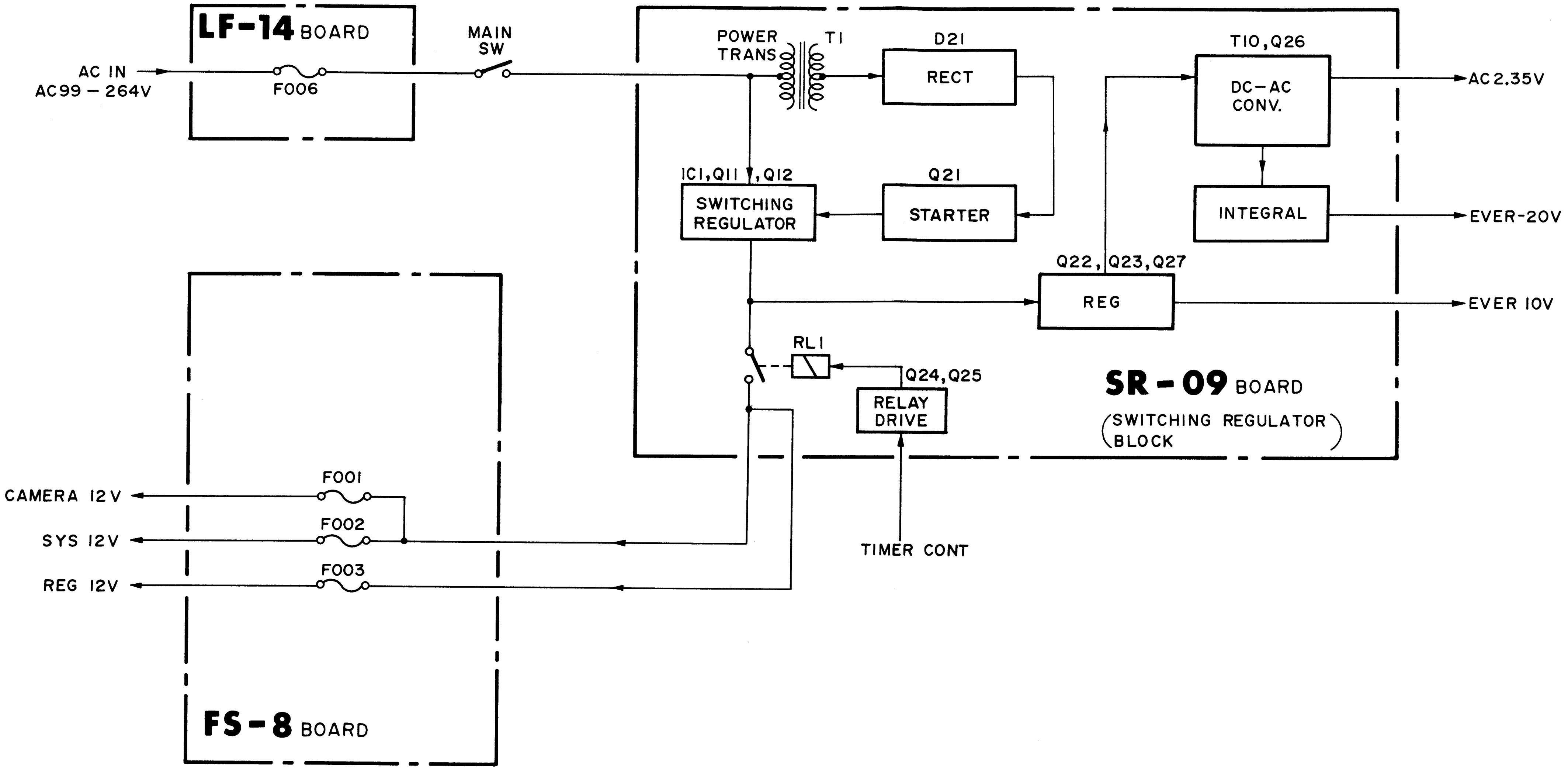
TIMER TIMING CHART


POWER SW OFF
POWER SW "TIMER" MODE
PRESS REC BUTTON
RESERVATION ON TIME
RESERVATION OFF TIME
DATE SET 23:59 ⇩ 0:00
RESERVATION ON TIME
TAPE END
TAPE TOP
RESERVATION OFF TIME
DATE SET 23:59 ⇩ 0:00
RESERVATION ON TIME
POWER SW OFF MODE (ON)
RESERVATION OFF TIME
POWER SW TIMER MODE
PRESS REC BUTTON
INITIATION OF POWER INTERRUPTION (I)
RESERVATION ON TIME
TERMINATION OF POWER INTERRUPTION (I)
INITIATION OF POWER INTERRUPTION (2)
TERMINATION OF POWER INTERRUPTION (2)
RESERVATION OFF TIME
MP2707A ② PIN
FF-1 (IC1 ③ PIN)
FF-2 (IC4 ⑨ PIN)
FF-3 END (IC1 ⑪ PIN)
IC3 Pre ③ PIN
AUTO REWIND
REC 10V
TIMER OUT
TIMER REC OUT
CANCEL OUT Q6 COLLECTOR
-20V
RESERVE LAMP
POWER LAMP
POWER OFF
B+
A+
3 sec
1 sec
3 sec
1 sec
30 m sec
1 sec
1 sec
200 m sec
3 sec
3 sec
3 sec
1 sec
1 sec

TUNER-IF BLOCK DIAGRAM


AERIAL
AERIAL (VTR RF)
RF MODULATOR
ANTENNA SWITCH
YC-7 BOARD
AUDIO
VIDEO
REG 12V
EE 12V
TU CONT
TU 12V
SW
Q401,Q402
REG 9V
Q403,Q404
RV301-RV304
RV402-RV405
PRESET VR
CHANNEL SELECT SW
IC401
Q408-Q411
VC AFT
BAND SW
Q405-Q407
TEST SW
CH-4,5,6 BOARD
TU101
ANT
U
VC
L
H
IF OUT
AGC
I
III
BPF
Q102
SYNC SEP
Q103
INVERTOR
KEYED PULSE
Q101
VIDEO DRIVE
BAND CORRECTION
YC-7 BOARD
Q104,T101,D103,D104
112V
DC-DC CONVERTOR
TU REG 12V
TEST SIG
TU-26 BOARD
T504,T505
DISCRI COIL
IC502
DET & DC AMP
IF AMP
AFT-7
AFT-8
C533
T503
REF TRANS
IC501
LIMITTER
Q501
VIF AMP
SF501
SAW F
T502
VIF COIL
VIF AMP-1
VIF AMP-2
VIF AMP-3
MIXER
BUFFER
VIF AGC
KEYED AMP
TU AGC
AGC
CF501
SOUND TRAP
Q502
DET OUT
RV501
IC503
T507
CF502
SIF BPF
DC VOL
MIXER
LIMITTER
REG DC
DISCRI
T506
IF-10 BOARD

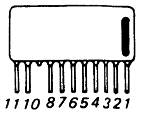
POWER SUPPLY BLOCK DIAGRAM



LF-14 BOARD
AC IN
AC99 – 264V
F006
MAIN SW
POWER TRANS
T1
D21
RECT
T10,Q26
DC–AC CONV.
AC2.35V
IC1,Q11,Q12
SWITCHING REGULATOR
Q21
STARTER
INTEGRAL
EVER-20V
Q22,Q23,Q27
REG
EVER 10V
RL1
Q24,Q25
RELAY DRIVE
SR-09 BOARD
(SWITCHING REGULATOR BLOCK)
TIMER CONT
CAMERA 12V
F001
SYS 12V
F002
REG 12V
F003
FS-8 BOARD

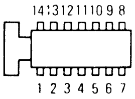
3-3. SEMICONDUCTORS

BX-342


1110 87654321

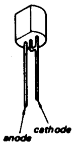
(Marking side view)

CX-150

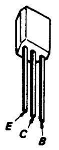

14 13 12 11 10 9 8
1 2 3 4 5 6 7

(Top view)

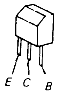
μPC574J


anode
cathode

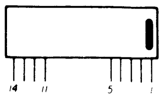
2SA1115R
2SC2603
2SC2603-F



2SD571
2SD773
2SD774

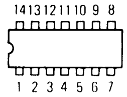


BX-383
BX-383A



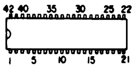
(Marking side view)

CX-150B
HD14001BP
HD14066BP
M5135P
MB84001B
MB84011B
MB84069UB
SN74LS10N
SN74LS74AN
SN74LS93N
TBA120UB
TC4001BP
TC4011BP
TC4025BP
TC4066BP
TC4069UBP
TC4081BP
μPD4081BC


14 13 12 11 10 9 8
1 2 3 4 5 6 7

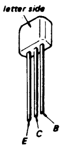
(Top view)

μPD546C-107
μPD547C-049

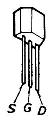

42 40 35 30 25 22
1 5 10 15 21

(Top view)

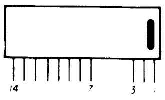
2SA1175
2SC2785F


letter side
E C B

2SK23A-834

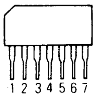


BX-384
BX-384A

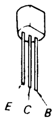


(Marking side view)

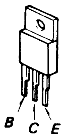
TA7120P



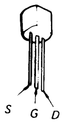
2SA733
2SA844
2SA925
2SC945
2SC1345
2SC1364
2SC1815
2SC2001



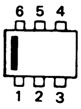
2SC1061
2SC2315
2SC2502



2SK105A-10
2SK107
2SK107-3

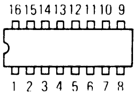


CX-130



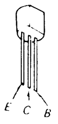
(Top view)

MB3759
TBA1440G

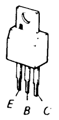

16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8

(Top view)

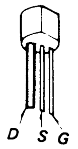
2SA772
2SB544
2SB733
2SB739
2SC1474
2SC1475
2SD788
2SD789



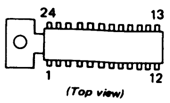
2SC1124



2SK152-2
2SK153-3

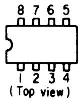


CX-134A
CX-136A
CX-143A
CX-186
CX-187
CX-832



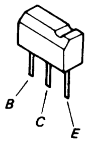
(Top view)

M58478P

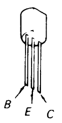


(Top view)

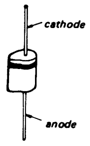
2SA937
2SC2021



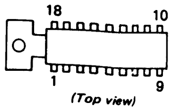
2SC1128
2SC2009



10E-2

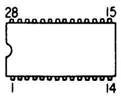

cathode
anode

CX-145



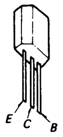
(Top view)

MP2707A

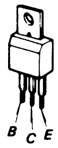


(Top view)

2SA1026
2SA1027R

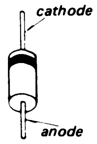


2SC1761

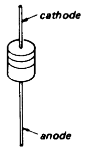


1N4148H
1S0076
1S1555
1S2076
1S2348H
1S2473
1SS133

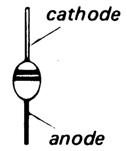
RD6.2E-B
RD6.8E-B2
RD7.5E-B
RD8.2E-B
RD10E-B
RD10E-B2
RD11E-B
RD15E-B3


cathode
anode

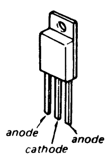
1SS119
1SS148


cathode
anode

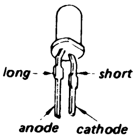
GU3A


cathode
anode

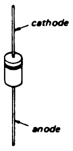
S5K-20


anode
anode
cathode

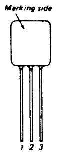
TLR123


long
short
anode
cathode

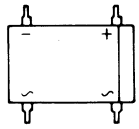
1S1925-P
1T22AN


cathode
anode

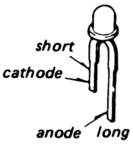
DM101A
DM106A


Marking side
1 2 3

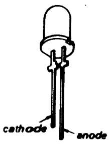
S1WB-10



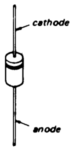
SR605C


short
cathode
anode
long

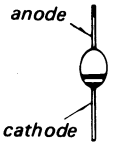
TLG114
TLG114A
TLR114
TLR114A


cathode
anode

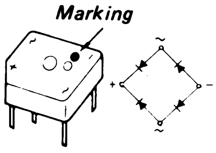
1SS53
1SS83


cathode
anode

GU1Z

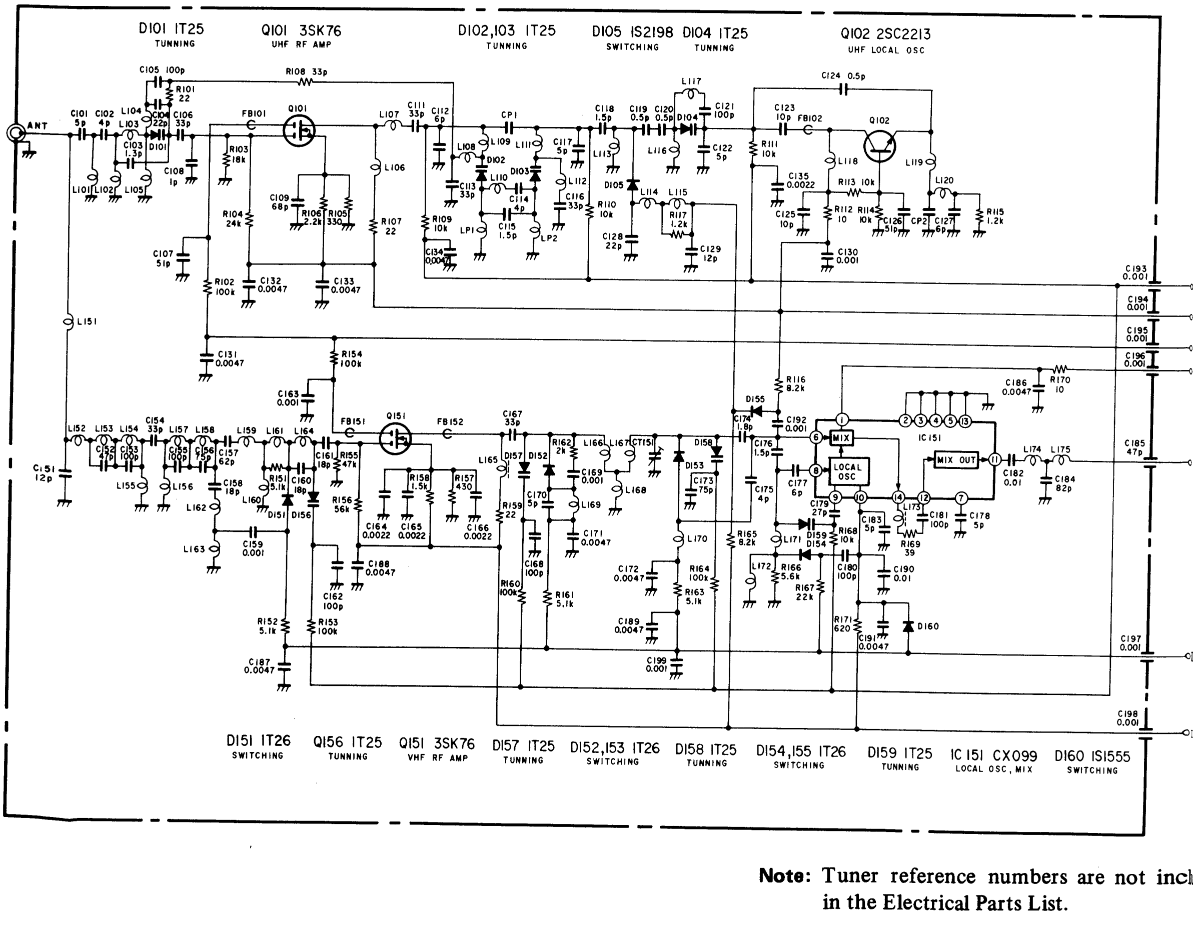

anode
cathode

S4VB-40



3-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

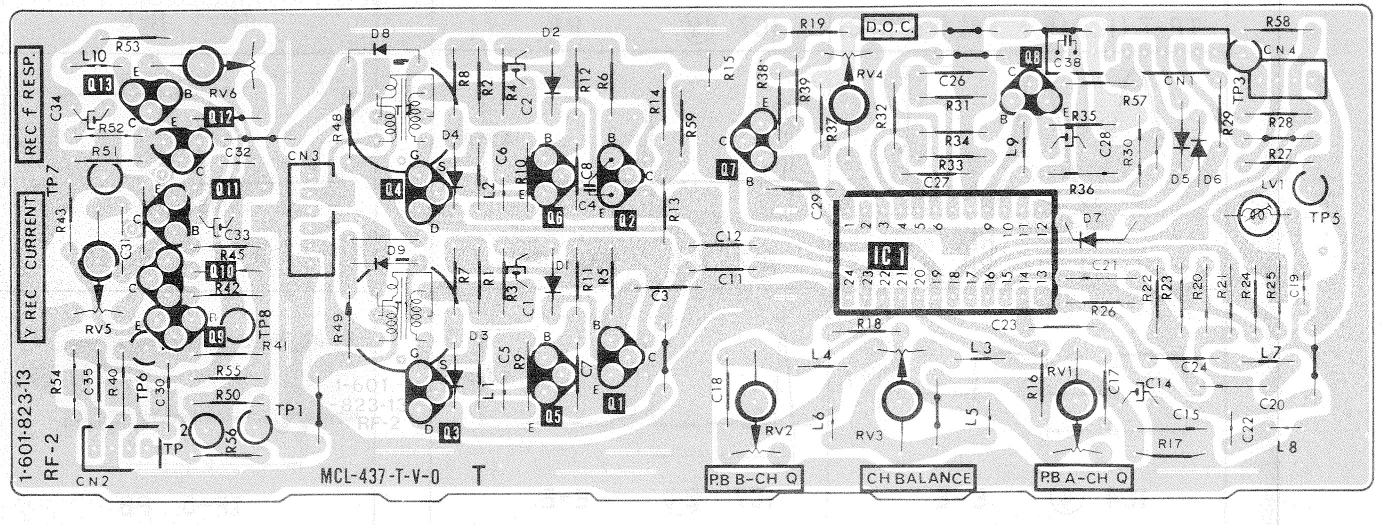
TUNER SCHEMATIC DIAGRAM – UHF/VHF TUNER BT-881 –


D101 1T25
TUNNING
Q101 3SK76
UHF RF AMP
D102,103 1T25
TUNNING
D105 1S2198
SWITCHING
D104 1T25
TUNNING
Q102 2SC2213
UHF LOCAL OSC
ANT
VC
U
AGC
B
IF
IC151
MIX
LOCAL OSC
MIX OUT
D151 1T26
SWITCHING
Q156 1T25
TUNNING
Q151 3SK76
VHF RF AMP
D157 1T25
TUNNING
D152,153 1T26
SWITCHING
D158 1T25
TUNNING
D154,155 1T26
SWITCHING
D159 1T25
TUNNING
IC151 CX099
LOCAL OSC, MIX
D160 1S1555
SWITCHING

Note: Tuner reference numbers are not included in the Electrical Parts List.

RF-2 BOARD

	A	B	C	D
IC, Q	13 12 11 10 9	4 3 6 5 2 1	7 IC1 8	
D		8 9 4 3 2 1		7 5 6
ADJ	RV5 RV6		RV2 RV4 RV3	RV1 LV1


REC f RESP.
Y REC CURRENT
1-601-823-13
RF-2
CN2
CN3
CN1
CN4
D.O.C.
IC1
MCL-437-T-V-0
P.B B-CH Q
CH BALANCE
P.B A-CH Q
RV1
RV2
RV3
RV4
RV5
RV6
LV1
TP1
TP3
TP5
TP6
TP7
TP8

AV-1 BOARD

IC1

MODE \ PIN	1	2	3	4	5	6	7	8	23	24
SECAM (PB)	8.6	—	3.4	2.8	2.8	2.8	—	8.6	5.6	8.6
NTSC 4.43MHz (PB)	9.6	—	3.4	2.8	2.8	2.8	—	8.6	5.6	8.6

IC2

MODE \ PIN	1	2	3	4	5	6	7	8	23	24
SECAM (PB)	10.5	—	5.2	4.6	4.6	4.6	—	7.0	5.7	8.6
NTSC 4.43MHz (PB)	10.5	—	5.2	4.6	4.6	4.6	—	7.0	5.7	8.6

IC3

MODE \ PIN	1	2	3	4	5	6
SECAM (PB)	8.2	—	8.9	—	9.0	0
NTSC 4.43MHz (PB)	8.2	—	8.9	—	9.0	2.0

IC4

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
SECAM (PB)	—	−1	—	4.9	5.5	4.6	3.6	—	4.2	4.4	8.8	—	2.1	—	5.0	—	—	—
NTSC 4.43MHz (PB)	—	0	—	4.9	5.5	4.6	3.6	—	4.2	4.4	8.8	—	2.1	—	5.0	—	—	—

IC5

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
SECAM (PB)	—	—	—	4.0	4.6	4.5	3.8	—	4.2	4.4	8.8	—	2.1	—	5.2	—	—	—
NTSC 4.43MHz (PB)	—	—	—	4.0	4.6	4.5	3.8	—	4.2	4.4	8.8	—	2.1	—	5.2	—	—	—

IC6

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SECAM (PB)	—	3.2	—	0	—	9.0	—	9.5	9.5	3.4	7.4	0	10.5	10.5
NTSC 4.43MHz (PB)	—	3.2	—	0	—	9.0	—	9.5	9.5	0	7.4	0	11	10.5

IC7

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SECAM (PB)	—	6.0	—	0	5.6	5.8	—	4.0	6.9	3.4	6.0	—	11.5	6.0
NTSC 4.43MHz (PB)	—	6.0	—	0	5.6	5.8	—	4.0	6.9	3.4	6.0	—	11.5	6.0

MODE \ PIN	15	16	17	18	19	20	21	22	23	24
SECAM (PB)	11.5	—	3.6	—	11.5	5.5	5.4	6.2	3.8	0.2
NTSC 4.43MHz (PB)	11.5	—	3.6	—	11.5	4.4	5.4	4.6	3.8	0.6

IC8

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SECAM (PB)	2.0	3.2	0.4	—	—	—	—	1.8	1.8	—	1.6	—	—	—
NTSC 4.43MHz (PB)	2.0	3.2	0.4	—	—	—	—	1.8	1.8	—	1.6	—	—	—

IC9

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SECAM (PB)	—	—	1.8	1.6	2.3	3.3	—	2.4	3.3	1.6	—	1.5	2.0	—
NTSC 4.43MHz (PB)	—	—	1.8	1.6	4.4	2.8	—	2.8	2.8	1.6	—	1.5	2.0	—

IC10

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SECAM (PB)	4.5	4.4	2.3	—	3.2	—	—	0.4	3.3	—	1.4	3.2	—	—
NTSC 4.43MHz (PB)	4.4	4.2	2.7	—	3.0	—	—	0.4	3.0	—	1.4	3.0	—	—

IC11

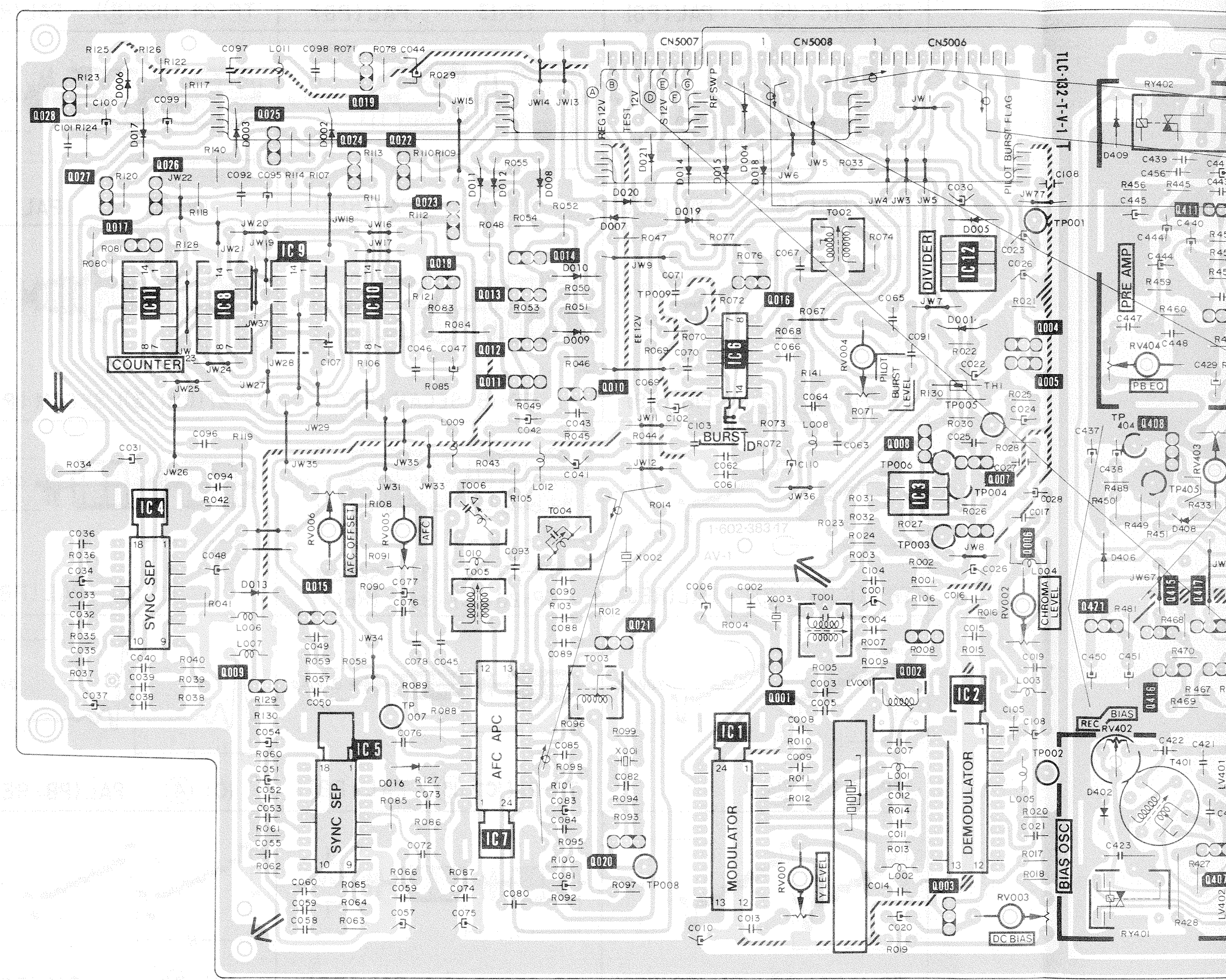
MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SECAM (PB)	2.0	—	—	—	—	1.6	—	—	—	—	1.8	2.0	2.0	0.4
NTSC 4.43MHz (PB)	2.0	—	—	—	—	1.6	—	—	—	—	1.8	2.0	2.0	0.4

IC12

MODE \ PIN	1	2	3	4	5	6	7	8
SECAM (PB)	2.2	—	—	5.6	0	2.8	2.8	6.2
NTSC 4.43MHz (PB)	2.2	—	—	5.6	0	2.8	2.8	6.2

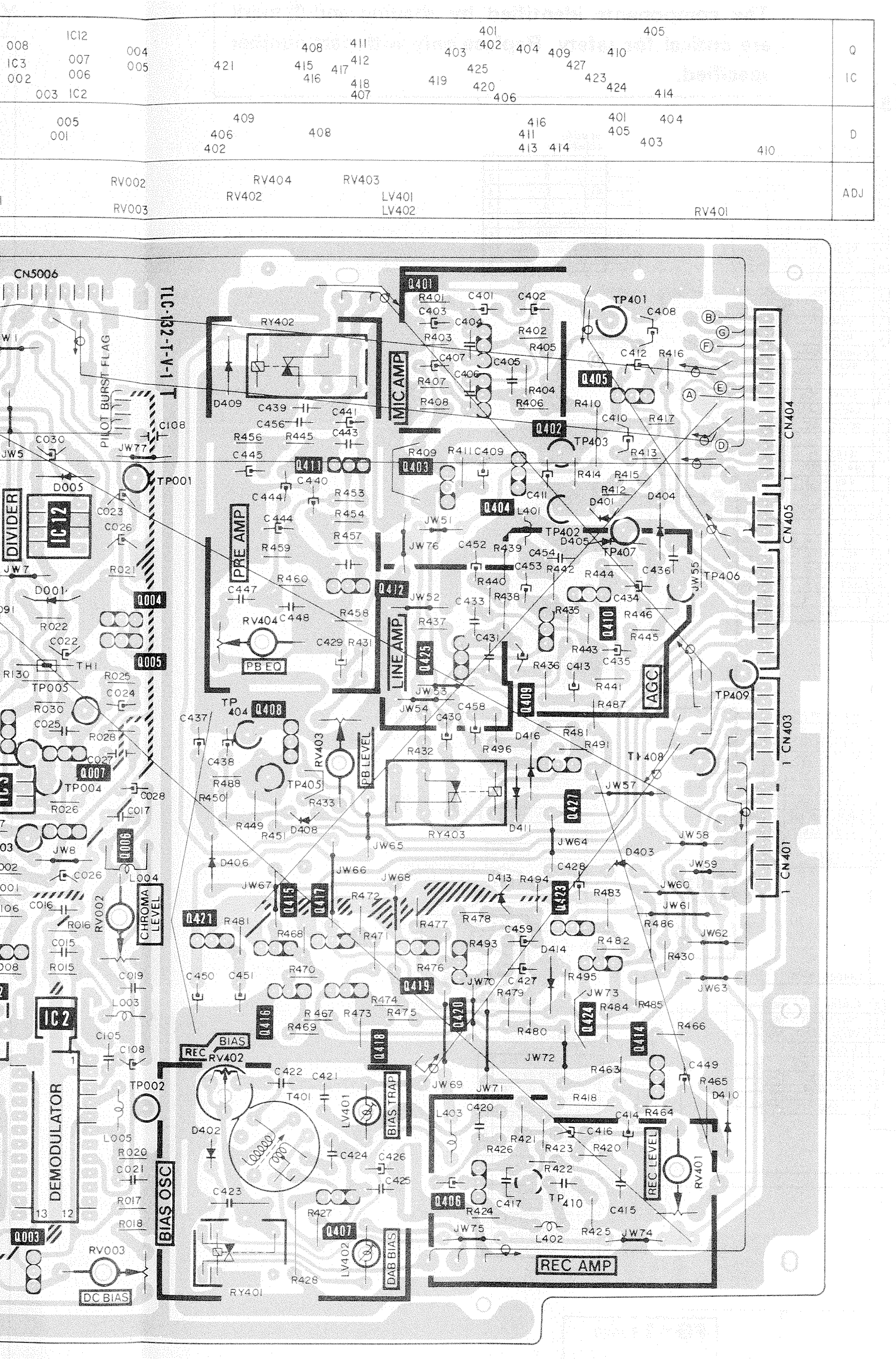
AV-1 BOARD

	E	F	G	H	
Q, IC	028 027 026 017 IC11 IC4 IC8	025 009 IC9 015 IC5 019 024 IC10 022 023 018 IC7 014 013 012 011 010	021 020 016 IC6 001 IC1	008 IC3 002 003 IC12 007 006 IC2 004 005 421	408 415 416 417
D	006 017 003 013	002 016 011,012 008	010 009 020 007 021 014 019 015 004 018	005 001 409 406 402	408
ADJ		RV006 RV005	RV001 RV004	LV001 RV002 RV003 RV402 RV404	

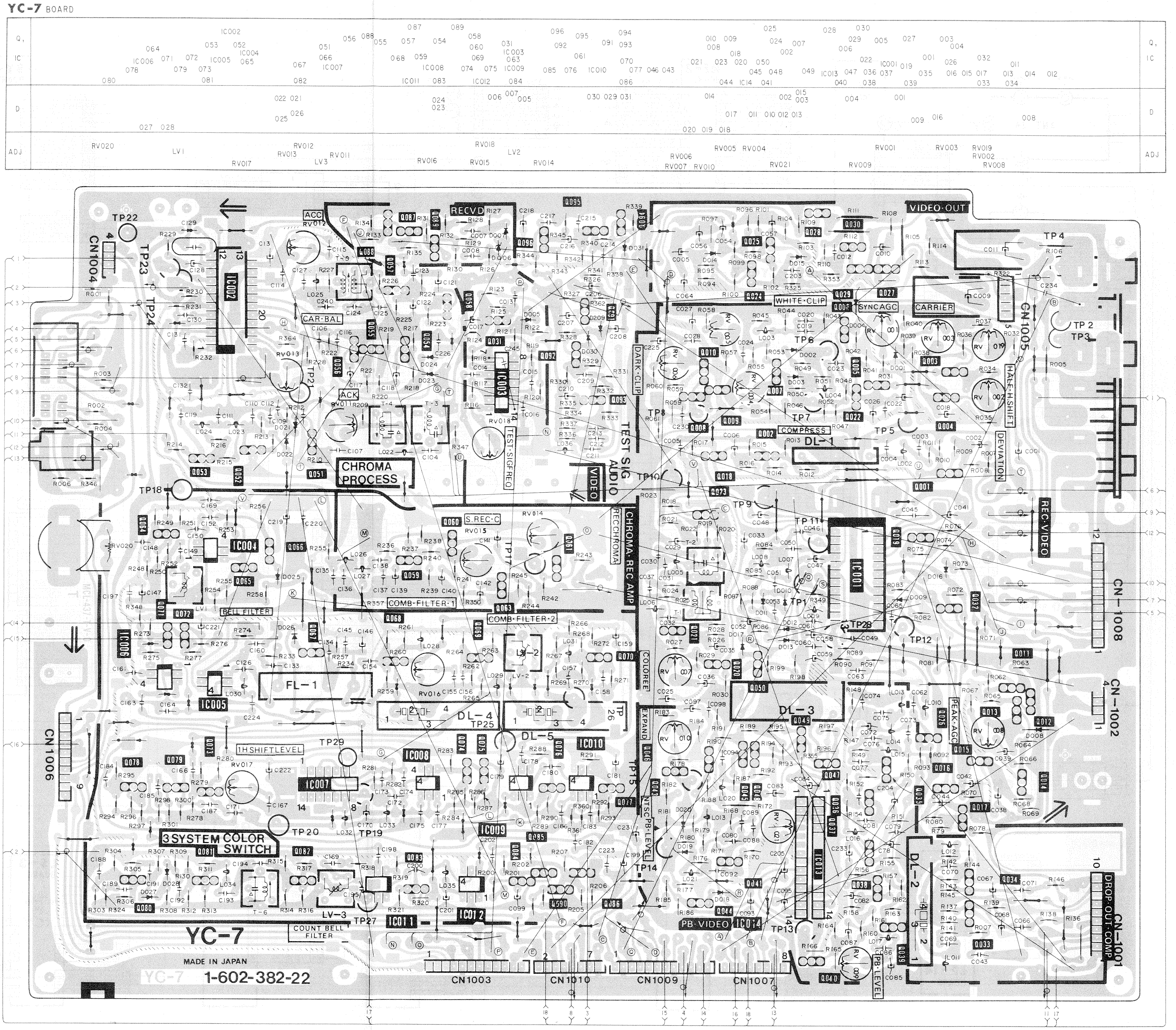

CN5007
CN5008
CN5006
REG 12V
PILOT BURST FLAG
COUNTER
SYNC SEP
AFC OFFSET
AFC
AFC APC
BURST
MODULATOR
DEMODULATOR
DIVIDER
BURST LEVEL
PILOT
CHROMA LEVEL
Y LEVEL
DC BIAS
PRE AMP
PB EQ
BIAS OSC
REC BIAS
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC8
IC9
IC10
IC11
IC12
RV001
RV003
RV004
RV005
RV006
RV402
RV404
LV001
TP001
TP002
TP003
TP004
TP005
TP006
TP007
TP008

▨ : B+ Pattern

H I J K L M N O


CN5006
TLC-132-1-V-1
PILOT BURST FLAG
DIVIDER
IC12
PRE AMP
MIC AMP
LINE AMP
AGC
PB EQ
PB LEVEL
CHROMA LEVEL
REC LEVEL
BIAS
BIAS OSC
BIAS TRAP
DAB BIAS
DC BIAS
DEMODULATOR
IC2
REC AMP
CN404
CN405
CN403
CN401

YC-7 BOARD


VIDEO-OUT
RECVD
ACC
CAR-BAL
ACK
CHROMA PROCESS
S.REC-C
COMB-FILTER-1
COMB-FILTER-2
BELL FILTER
FL-1
DL-1
DL-2
DL-3
DL-4
DL-5
LV-3
1H SHIFT LEVEL
3 SYSTEM COLOR SWITCH
COUNT BELL FILTER
WHITE-CLIP
SYNC AGC
CARRIER
COMPRESS
DARK-CLIP
TEST SIG FREQ
TEST SIG AUDIO VIDEO
CHROMA REC AMP REC CHROMA
COLOREE
EXPAND
NTSC PB-LEVEL
PB-VIDEO
PB-LEVEL
PEAK-AGC
HALF-SHIFT
DEVIATION
REC-VIDEO
DROP OUT COMP
CN1001
CN1002
CN1003
CN1004
CN1005
CN1006
CN1007
CN1008
CN1009
CN1010
YC-7
MADE IN JAPAN
1-602-382-22

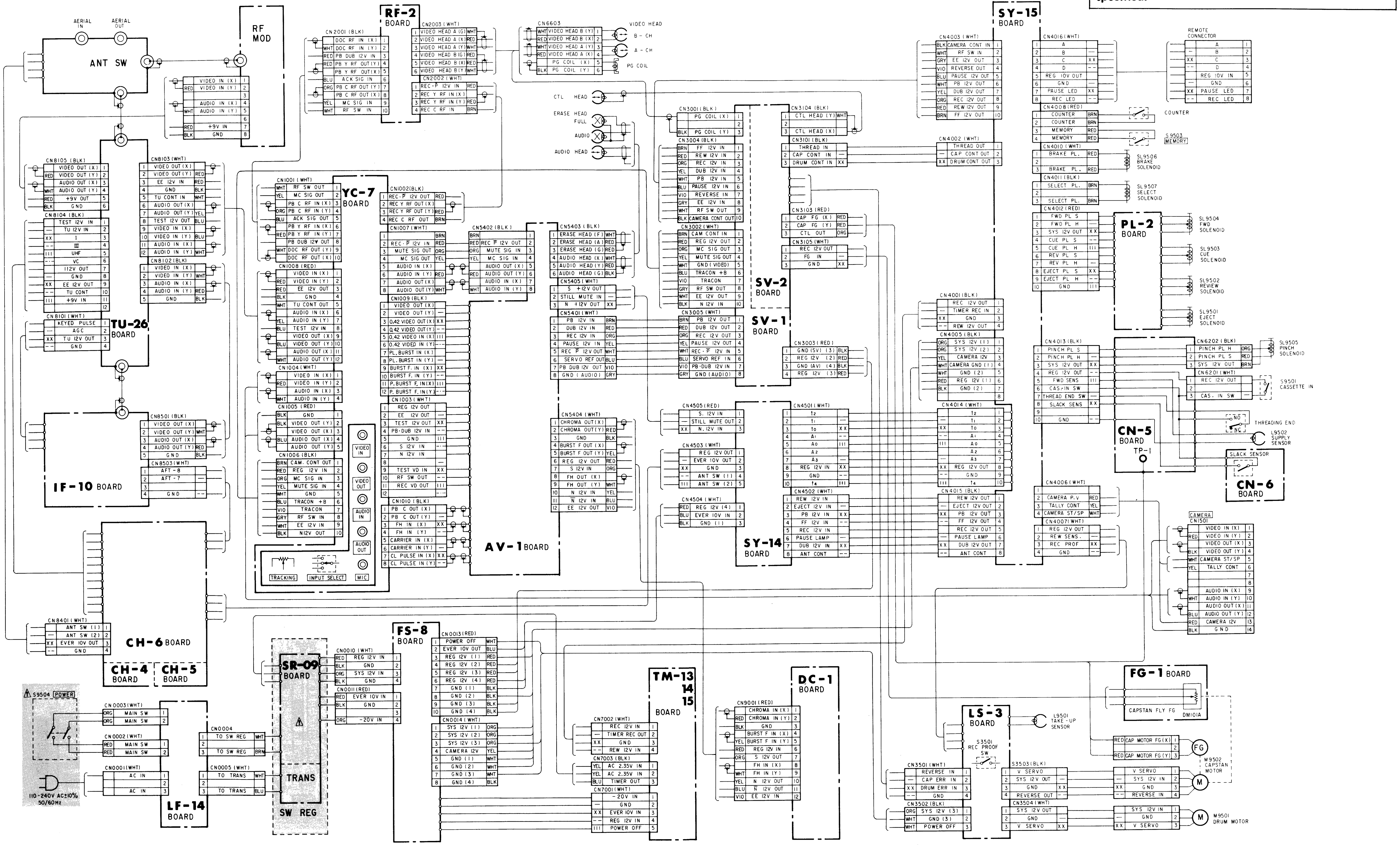
FRAME SCHEMATIC DIAGRAM

— Ref. No. CHASSIS: 9,500 series —

A B C D E F G H

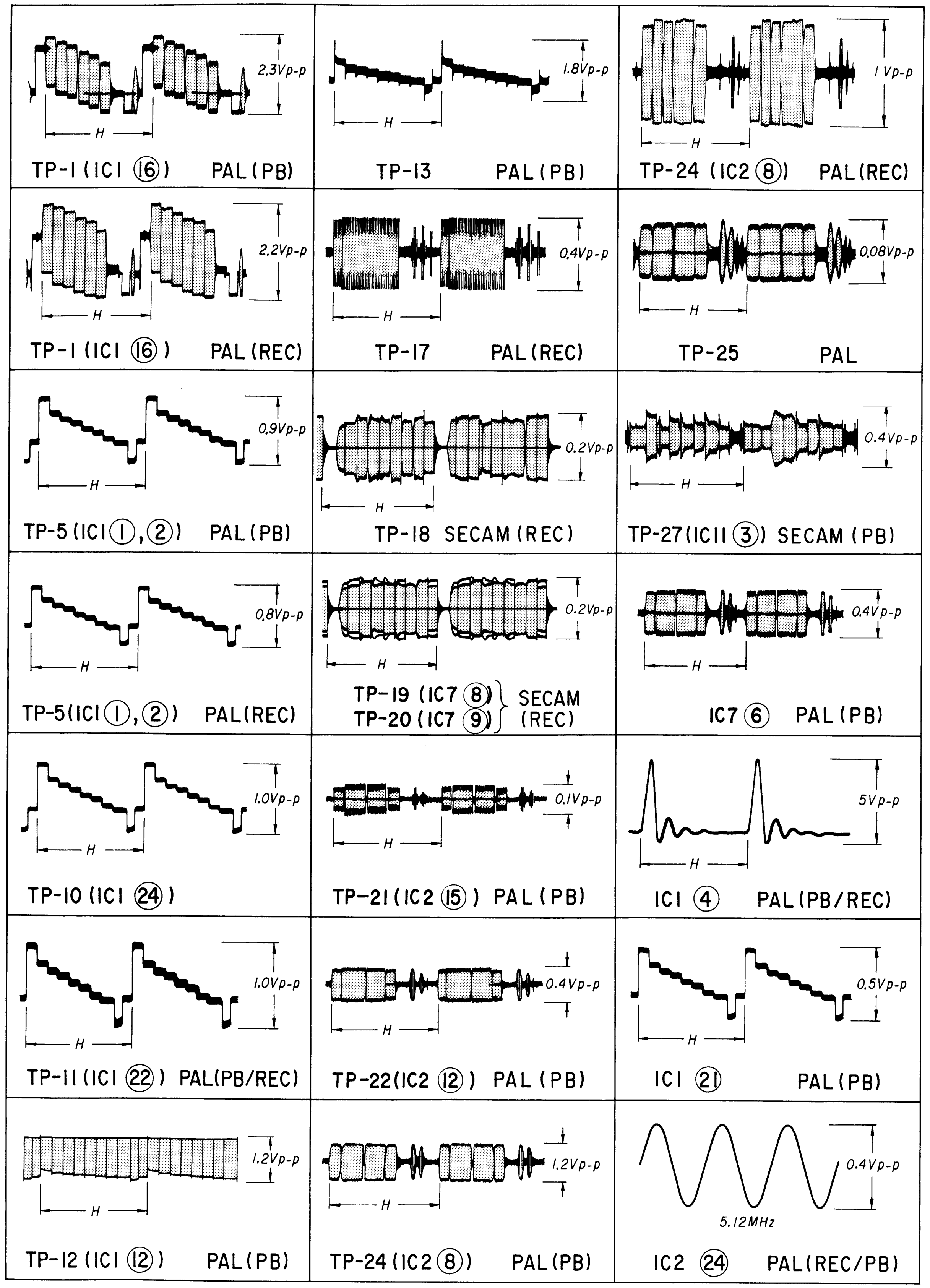
1 2 3 4 5

The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.


AERIAL IN
AERIAL OUT
ANT SW
RF MOD
TU-26 BOARD
CN8105 (BLK)
CN8104 (BLK)
CN8101 (WHT)
CN8103 (WHT)
CN8102 (BLK)
IF-10 BOARD
CN8501 (BLK)
CN8503 (WHT)
CH-6 BOARD
CH-4 BOARD
CH-5 BOARD
CN8401 (WHT)
S9504 POWER
110-240V AC±10% 50/60Hz
CN0003 (WHT)
CN0002 (WHT)
CN0001 (WHT)
LF-14 BOARD
CN0004
CN0005 (WHT)
SR-09 BOARD
TRANS
SW REG
RF-2 BOARD
CN2001 (BLK)
CN2003 (WHT)
CN2002 (WHT)
CN6603
VIDEO HEAD
B - CH
A - CH
PG COIL
CTL HEAD
ERASE HEAD FULL
AUDIO
AUDIO HEAD
YC-7 BOARD
CN1001 (WHT)
CN1008 (RED)
CN1004 (WHT)
CN1005 (RED)
CN1006 (BLK)
CN1002 (BLK)
CN1007 (WHT)
CN1009 (BLK)
CN1003 (WHT)
CN1010 (BLK)
VIDEO IN
VIDEO OUT
AUDIO IN
AUDIO OUT
MIC
TRACKING
INPUT SELECT
AV-1 BOARD
CN5402 (BLK)
CN5403 (BLK)
CN5405 (WHT)
CN5401 (WHT)
CN5404 (WHT)
FS-8 BOARD
CN0010 (WHT)
CN0011 (RED)
CN0013 (RED)
CN0014 (WHT)
TM-13 14 15 BOARD
CN7002 (WHT)
CN7003 (BLK)
CN7001 (WHT)
DC-1 BOARD
CN9001 (RED)
SV-2 BOARD
SV-1 BOARD
CN3001 (BLK)
CN3004 (BLK)
CN3002 (WHT)
CN3005 (WHT)
CN3104 (BLK)
CN3101 (BLK)
CN3103 (RED)
CN3105 (WHT)
CN3003 (RED)
SY-14 BOARD
CN4505 (RED)
CN4503 (WHT)
CN4504 (WHT)
CN4501 (WHT)
CN4502 (WHT)
SY-15 BOARD
CN4003 (WHT)
CN4002 (WHT)
CN4001 (BLK)
CN4005 (BLK)
CN4014 (WHT)
CN4015 (BLK)
CN4016 (WHT)
CN4008 (RED)
CN4010 (WHT)
CN4011 (BLK)
CN4012 (RED)
CN4013 (BLK)
CN4006 (WHT)
CN4007 (WHT)
REMOTE CONNECTOR
COUNTER
S9503 MEMORY
SL9506 BRAKE SOLENOID
SL9507 SELECT SOLENOID
PL-2 BOARD
SL9504 FWD SOLENOID
SL9503 CUE SOLENOID
SL9502 REVIEW SOLENOID
SL9501 EJECT SOLENOID
CN-5 BOARD
TP-1
CN6202 (BLK)
CN6201 (WHT)
SL9505 PINCH SOLENOID
S9501 CASSETTE IN
THREADING END
L9502 SUPPLY SENSOR
SLACK SENSOR
CN-6 BOARD
CAMERA CN1501
FG-1 BOARD
CAPSTAN FLY FG
DM101A
LS-3 BOARD
L9501 TAKE-UP SENSOR
S3501 REC PROOF SW
CN3501 (WHT)
CN3502 (BLK)
S3503 (BLK)
CN3504 (WHT)
M9502 CAPSTAN MOTOR
M9501 DRUM MOTOR

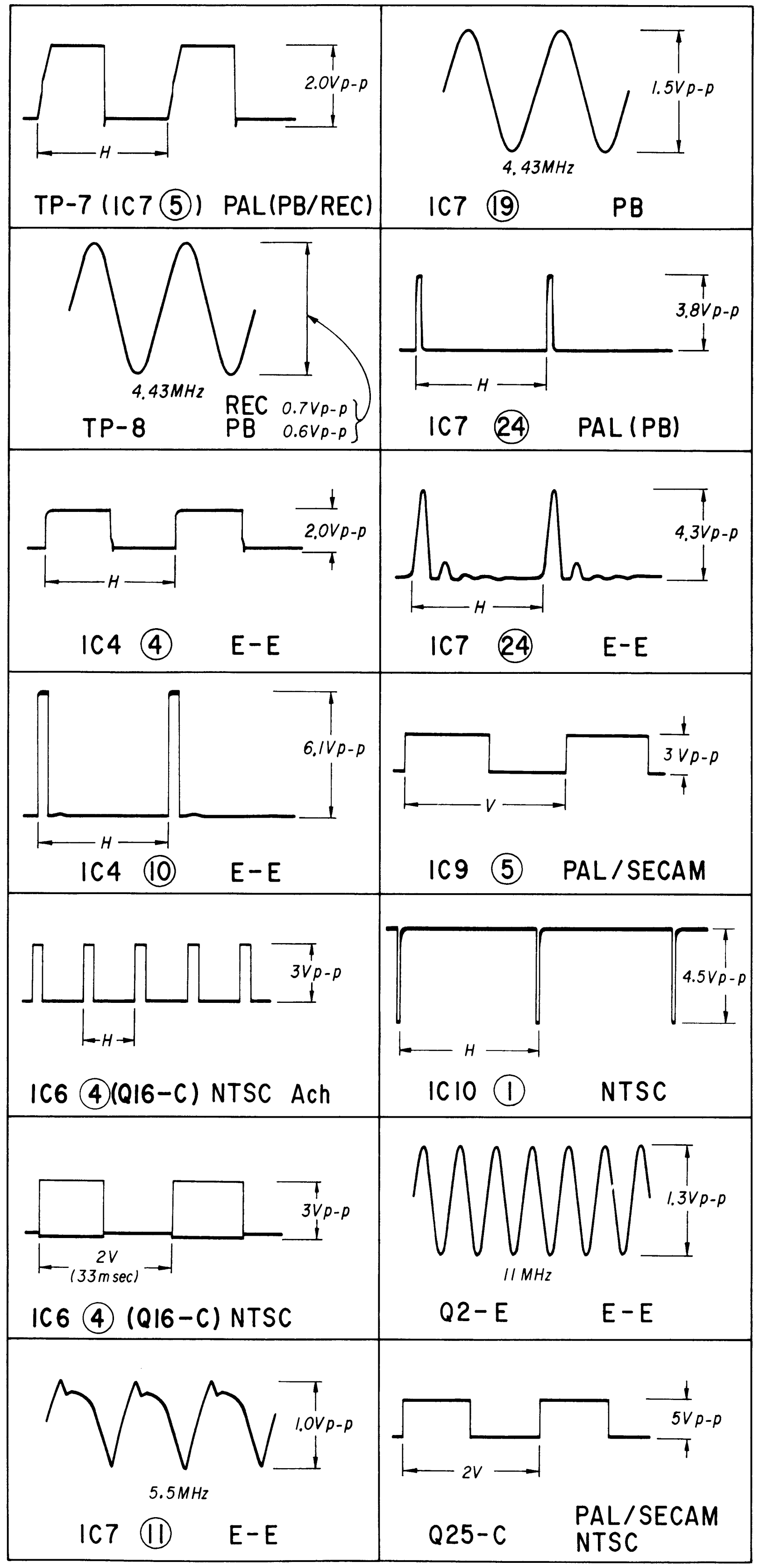
and ⚠ mark
part number

YC-7 BOARD



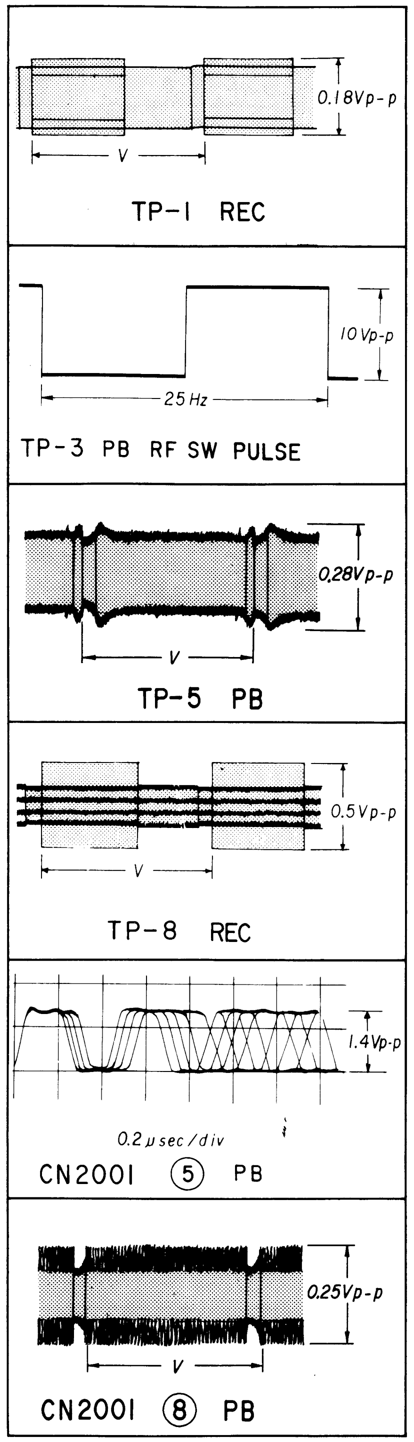
TP-1 (IC1 ⑯) PAL (PB)
TP-13 PAL (PB)
TP-24 (IC2 ⑧) PAL (REC)
TP-1 (IC1 ⑯) PAL (REC)
TP-17 PAL (REC)
TP-25 PAL
TP-5 (IC1 ①, ②) PAL (PB)
TP-18 SECAM (REC)
TP-27 (IC11 ③) SECAM (PB)
TP-5 (IC1 ①, ②) PAL (REC)
TP-19 (IC7 ⑧) } SECAM
TP-20 (IC7 ⑨) } (REC)
IC7 ⑥ PAL (PB)
TP-10 (IC1 ㉔)
TP-21 (IC2 ⑮) PAL (PB)
IC1 ④ PAL (PB/REC)
TP-11 (IC1 ㉒) PAL(PB/REC)
TP-22 (IC2 ⑫) PAL (PB)
IC1 ㉑ PAL (PB)
TP-12 (IC1 ⑫) PAL (PB)
TP-24 (IC2 ⑧) PAL (PB)
IC2 ㉔ PAL (REC/PB)

AV-1 BOARD



TP-7 (IC7 ⑤) PAL(PB/REC)
IC7 ⑲ PB
TP-8
IC7 ㉔ PAL (PB)
IC4 ④ E-E
IC7 ㉔ E-E
IC4 ⑩ E-E
IC9 ⑤ PAL/SECAM
IC6 ④(Q16-C) NTSC Ach
IC10 ① NTSC
IC6 ④ (Q16-C) NTSC
Q2-E E-E
IC7 ⑪ E-E
Q25-C PAL/SECAM NTSC

RF-2 BOARD



TP-1 REC
TP-3 PB RF SW PULSE
TP-5 PB
TP-8 REC
CN2001 ⑤ PB
CN2001 ⑧ PB

YC-7 BOARD

MODE \ Q	1			2			3			4			5			6			7			8			9		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	2.8	12	3.4	3.3	7.5	3.8	6.4	–	5.8	7.0	3.3	6.2	4.0	–	3.3	3.3	11	4.0	0.7	10.5	1.3	11.5	2.5	11.5	11.5	12	7.5
SECAM (REC)	2.8	12	3.4	3.3	7.5	3.8	6.4	–	5.8	7.0	3.3	6.2	4.0	–	3.2	3.2	8.1	3.8	0.7	10.5	1.3	9.5	4.1	8.8	8.8	12	7.5
NTSC (PB) 4.43MHz	2.8	12	3.4	3.3	7.5	3.8	6.4	–	5.8	7.0	3.3	6.2	4.0	–	3.3	3.3	11	4.0	0.7	10.5	1.3	11.5	2.5	11.5	11.5	12	7.5

MODE \ Q	10			11			12			13			14			15			16			17			18		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	2.5	12	3.1	6.1	12	6.8	6.8	–	6.1	6.8	0	6.5	0	12	0	1.2	12	0	10.5	11.5	8.9	–	11.5	0	6.9	12	7.5
SECAM (REC)	4.1	12	3.1	6.0	12	6.6	6.7	–	6.0	6.7	0	6.5	1.4	12	0	1.4	12	1.4	1	0	0	–	0	0	6.9	12	7.5
NTSC (PB) 4.43MHz	2.5	12	3.1	6.1	12	6.8	6.8	–	6.1	6.8	0	6.5	0	12	0	1.2	12	0	10.5	11.5	8.9	–	0	0	6.9	12	7.5

MODE \ Q	19			20			21			22			23			24			25			26			27		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	–	0.3	0	4.5	12	5.1	9.6	5.1	8.8	11.5	–	11	8.4	12	9.1	8.0	7	11.5	8.0	12	8.6	–	0	0.6	6.6	12	7.2
SECAM (REC)	–	0.3	0	4.5	12	5.1	9.6	5.1	8.8	8.8	–	8.1	8.4	12	9.1	8.0	7	11.5	8.0	12	8.6	–	0	0.6	6.6	12	7.2
NTSC (PB) 4.43MHz	–	0.3	0	4.5	12	5.1	9.6	5.1	8.8	11.5	–	11	8.4	12	9.1	8.0	7	11.5	8.0	12	8.6	–	0	0.6	6.6	12	7.2

MODE \ Q	28			29			30			32			33			34			35			36			37		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	2.9	12	3.6	7.0	12	7.7	–	7.7	0	–	0.8	0	4.3	12	4.7	4.3	12	4.7	8.8	12	9.4	9.6	2.2	8.8	8.8	12	9.5
SECAM (REC)	2.9	12	3.6	7.0	12	7.7	–	7.7	0	–	1.0	0	0	0	0	0	0	0	9.2	12	9.9	10.0	1.8	9.2	9.2	12	9.9
NTSC (PB) 4.43MHz	2.9	12	3.6	7.0	12	7.7	–	7.7	0	–	0.8	0	4.3	12	4.7	4.3	12	4.7	8.8	12	9.4	9.4	2.2	8.8	8.8	12	9.5

MODE \ Q	38			39			40			41			43			44			45			46			47		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	8.4	4.2	7.6	–	0	0.5	8.9	–	8.1	9.6	2.6	8.9	0.6	11	1.3	0	12	0	2.3	9.4	2.9	2.3	12	2.9	8.7	12	9.4
SECAM (REC)	8.4	4.2	7.6	–	0	0.5	8.9	–	8.1	9.6	2.6	8.9	0.6	11	1.3	0	12	0	2.3	9.4	2.9	2.3	12	2.9	8.7	12	9.4
NTSC (PB) 4.43MHz	8.4	4.2	7.6	–	0	0.5	8.9	–	8.1	9.6	2.6	8.9	0.6	11	1.3	7.2	12	7.7	2.3	9.4	2.9	2.3	12	2.9	8.7	12	9.4

MODE \ Q	48			49			50			51			52			53			54			55			56		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	10	2.8	9.4	2.2	9.4	2.8	3.8	12	4.3	–	–	–	5.6	12	6.2	6.3	12	6.9	–	0	0.3	–	0.3	0.3	–	0	0.3
SECAM (REC)	10	2.8	9.4	2.2	9.4	2.8	3.7	12	4.3	5.8	12	4.1	0	0	0	0	0	0	–	0	0	–	0	0.7	–	0	0.7
NTSC (PB) 4.43MHz	10	2.8	9.4	2.2	9.4	2.8	3.8	12	4.3	–	–	–	5.6	12	6.2	6.3	12	6.9	–	0	0.3	–	0.3	0.3	–	0	0.3

MODE \ Q	57			58			59			60			61			62			63			64			65		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	4.8	12	5.1	–	0	0	–	0	0.7	–	–	–	–	–	–	–	0	0.7	–	–	–	2.8	11	3.4	–	0	0.6
SECAM (REC)	5.1	12	5.4	–	0	0.7	–	0	0.7	7.7	10.5	8.3	11	12	11.5	–	11	0	–	0	0.6	2.8	11	3.4	–	0	0.6
NTSC (PB) 4.43MHz	4.8	12	5.1	–	0	0	–	0	0.7	–	–	–	–	–	–	–	0	0.7	–	–	–	2.8	11	3.4	–	8.1	0

MODE \ Q	66			67			68			69			70			71			72			73			74		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	0	0	0	7.6	12	4.7	1.3	12	1.8	1.3	12	1.8	0.6	8.2	1.2	2.2	8.1	2.6	–	2.2	0	1.2	10.5	1.6	2.2	8.1	2.6
SECAM (REC)	7.6	11.5	4.7	0	0	0	1.3	12	1.8	1.3	12	1.8	0.6	8.2	1.2	0	0	0.7	–	0	0.7	1.2	10.5	1.6	0	0	0.6
NTSC (PB) 4.43MHz	0	0	0	7.6	12	4.7	1.3	12	1.8	1.3	12	1.8	0.6	8.2	1.2	0	8.2	0	–	0	0	1.2	10.5	1.6	0	8.1	0

MODE \ Q	75			76			77			78			79			80			81			82			83		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	–	2.2	0	–	0	0.6	–	8.1	0	5.0	12	5.3	5.0	12	5.2	1.2	10.5	1.8	1.0	5.5	1.7	3.2	6.2	3.8	–	0	0.6
SECAM (REC)	–	0	0.6	–	0	0.6	–	8.1	0	5.0	12	5.3	5.0	12	5.2	1.2	10.5	1.8	1.0	5.5	1.7	3.2	6.2	3.8	–	0	0.6
NTSC (PB) 4.43MHz	–	0	0	–	8.0	0	–	0	0.6	5.0	12	5.3	5.0	12	5.2	1.2	10.5	1.8	1.0	5.5	1.5	3.2	6.2	3.8	–	8.1	0

MODE \ Q	84			85			86			87			88			89			91			94			95			96		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	–	0	0.6	–	7.8	0	7.2	12	7.8	0.2	11.5	0.1	–	0.2	0	12	0.1	11.5	5.0	12	5.4	–	0	0.6	–	9.5	0	9.8	6.1	9.1
SECAM (REC)	–	0	0.6	–	7.8	0	7.2	12	7.8	0.2	11.5	0.1	–	0.2	0	12	0.1	11.5	5.0	12	5.4	–	9.6	0	–	11	0	9.8	6.1	9.1
NTSC (PB) 4.43MHz	–	0	0.6	–	7.8	0	7.2	12	7.8	0.2	11.5	0.1	–	0.2	0	12	0.1	11.5	5.0	12	5.4	–	0	0.6	–	9.5	0	9.8	6.1	9.1

AV-1 BOARD

MODE \ Q	Q1			Q2			Q3			Q4		
	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	1.6	5.8	1.3	2.0	5.8	1.8	4.6	–	5.2	8.8	–	8.4
NTSC 4.43MHz (PB)	1.6	5.8	1.3	2.0	5.8	1.8	4.6	–	5.2	8.8	–	8.4

MODE \ Q	Q5			Q6			Q7			Q8		
	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	8.2	–	8.8	9.0	–	7.4	9.0	–	6.7	–	0	0.6
NTSC 4.43MHz (PB)	8.2	–	8.8	9.0	–	7.4	9.0	–	6.7	–	2.0	2.3

MODE \ Q	Q9			Q10			Q11			Q12		
	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	7.6	–	8.2	0	–	0	–	0	0.6	0.6	–	0
NTSC 4.43MHz (PB)	7.6	–	8.2	0	–	0	–	0	0	0.6	–	0

MODE \ Q	Q13			Q14			Q15			Q16		
	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	0	–	0.3	–	0	0.6	5.6	0	5.0	–	0	0.6
NTSC 4.43MHz (PB)	1.0	–	0.3	–	0	0	5.6	0	5.0	–	0	0.3

MODE \ Q	Q17			Q18			Q19			Q20		
	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	–	2.0	0.5	4.6	11	5.2	1.6	–	0.7	4.4	–	5.0
NTSC 4.43MHz (PB)	–	2.0	0.5	4.6	11	5.2	1.6	–	0.7	4.4	–	5.0

MODE \ Q	Q21			Q22			Q23			Q24		
	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	4.4		0	G	4.4	0	4.4	4.5	0	2.3	2.3	2.3
NTSC 4.43MHz (PB)	4.4		0	G	0	0.7	0	4.4	0.1	2.1	4.4	0

MODE \ Q	Q25			Q26			Q27			Q28		
	E	C	B	E	C	B	E	C	B	E	C	B
SECAM (PB)	G	2.3	0.3	G	4.4	-0.02	4.4	4.4	5.0	G	10.5	-4.4
NTSC 4.43MHz (PB)	G	2.1	0.3	G	4.2	-0.02	4.4	4.2	0	G	10.5	-4.4

YC-7 BOARD

IC1

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SECAM (PB)	5.8	6.7	0	0.3	1.2	4.6	2.0	1.5	–	6.7	6.7	9.4	10.5	–	–	8.2	7.2	2.6	5.2	8.2	8.2	8.8	8.4	9.1
SECAM (REC)	5.8	6.7	0	0.4	1.4	4.3	0	1.1	–	6.7	6.7	9.9	9.9	–	–	8.0	7.2	2.6	5.2	8.2	8.2	8.6	8.2	9.1
NTSC (PB) 4.43MHz	5.8	6.7	0	0.3	1.2	4.6	2.0	1.5	–	6.7	6.7	9.4	10.5	–	–	8.2	7.2	2.6	5.2	8.2	8.2	8.8	8.4	9.1

IC2

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SECAM (PB)	10.5	–	5.2	4.6	4.2	4.0	–	7.3	3.4	4.8	4.8	10	–	–	5.6	6.2	5.4	4.5	5.2	12	0	0.4	5.8	8.6
SECAM (REC)	10.5	–	5.2	4.6	4.2	4.0	–	7.3	3.1	5.0	5.0	10	–	–	5.6	6.2	5.4	4.5	5.4	12	0	0.4	5.8	8.6
NTSC (PB) 4.43MHz	10.5	–	5.2	4.6	4.2	4.0	–	7.3	3.4	4.8	4.8	10	–	–	5.6	6.2	5.4	4.5	4.8	12	0	0.4	5.8	8.6

IC4

MODE \ PIN	1	2	3	4	5	6
SECAM (PB)	7.6	–	7.8	–	8.0	0
SECAM (REC)	7.6	–	7.8	–	8.0	0
NTSC (PB) 4.43MHz	7.6	–	8.0	–	7.8	8.1

IC5

MODE \ PIN	1	2	3	4	5	6
SECAM (PB)	7.6	–	8.1	–	8.1	0
SECAM (REC)	7.6	–	8.1	–	8.1	0.6
NTSC (PB) 4.43MHz	7.6	–	8.1	–	8.1	0

IC6

MODE \ PIN	1	2	3	4	5	6
SECAM (PB)	7.6	–	8.0	–	7.8	8.2
SECAM (REC)	7.6	–	7.8	–	8.0	0
NTSC (PB) 4.43MHz	7.6	–	8.0	–	7.8	8.2

IC7

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SECAM (PB)	–	3.2	–	1.4	–	9.1	–	9.6	9.6	–	–	–	–	–
SECAM (REC)	–	3.2	–	1.4	–	9.1	–	9.6	9.6	–	–	–	–	–
NTSC (PB) 4.43MHz	–	3.2	–	1.4	–	9.1	–	9.6	9.6	–	–	–	–	–

IC8

MODE \ PIN	1	2	3	4	5	6
SECAM (PB)	7.6	–	8.0	–	7.8	8.1
SECAM (REC)	7.6	–	7.8	–	8.0	0
NTSC (PB) 4.43MHz	7.6	–	8.0	–	7.8	8.1

IC9

MODE \ PIN	1	2	3	4	5	6
SECAM (PB)	7.5	–	7.7	–	8.0	0
SECAM (REC)	7.5	–	7.7	–	8.0	0
NTSC (PB) 4.43MHz	7.5	–	8.0	–	7.8	8.0

IC10

MODE \ PIN	1	2	3	4	5	6
SECAM (PB)	7.6	–	8.0	–	7.8	8.1
SECAM (REC)	7.6	–	8.0	–	7.8	8.1
NTSC (PB) 4.43MHz	7.6	–	7.8	–	8.0	0

IC11

MODE \ PIN	1	2	3	4	5	6
SECAM (PB)	7.6	–	7.8	–	8.0	0
SECAM (REC)	7.6	–	7.8	–	8.0	0
NTSC (PB) 4.43MHz	7.6	–	8.0	–	7.8	8.1

IC12

MODE \ PIN	1	2	3	4	5	6
SECAM (PB)	7.6	–	8.1	–	8.1	4.6
SECAM (REC)	7.6	–	8.1	–	8.1	4.3
NTSC (PB) 4.43MHz	7.6	–	8.1	–	8.1	4.6

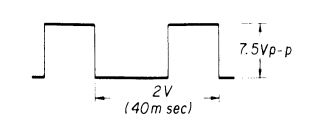
IC13

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SECAM (PB)	0	5.2	3.2	10.5	–	–	–	–	–	–	9.1	–	7.6	–
SECAM (REC)	0	5.2	3.2	10.5	–	–	–	–	–	–	9.1	–	7.6	–
NTSC (PB) 4.43MHz	0	5.2	3.2	10.5	–	–	–	–	–	–	9.1	–	7.6	–

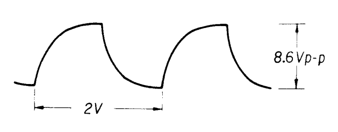
IC14

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SECAM (PB)	7.4	–	–	–	–	–	10.5	–	2.5	–	3.4	0	0	0.7
SECAM (REC)	7.4	–	–	–	–	–	10.5	–	2.5	–	3.1	0	0	0.7
NTSC (PB) 4.43MHz	7.4	–	–	–	–	–	10.5	–	2.5	–	3.4	0	0	0.7

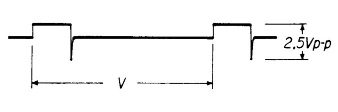
SV-1 BOARD



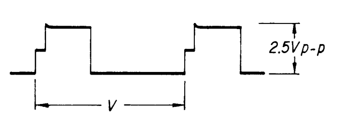
IC1 ⑥ REC/PB



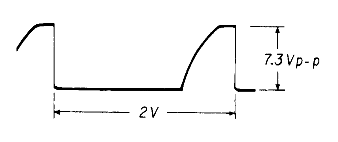
IC1 ⑦ REC/PB



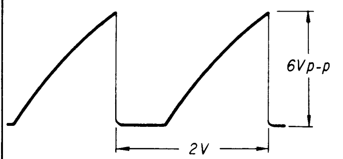
IC1 ⑫ REC



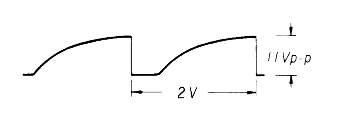
IC1 ⑫ PB



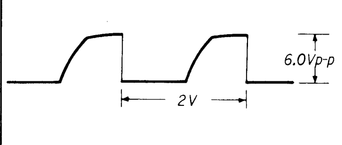
IC1 ⑯ REC



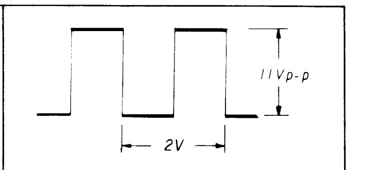
IC1 ⑯ PB



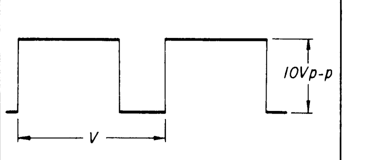
IC1 ㉒ REC/PB



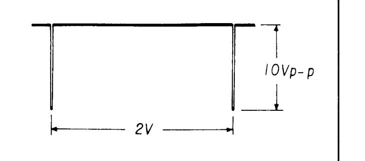
IC1 ㉔ REC/PB



TP-1 REC/PB

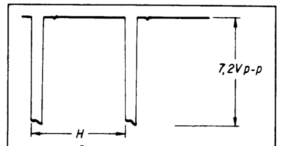


TP-5 REC

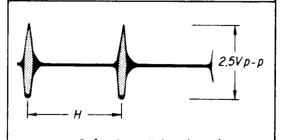


TP-5 PB

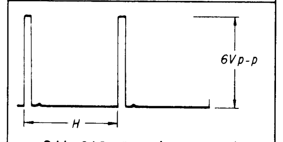
DC-1 BOARD



Q1-C (PB/REC)

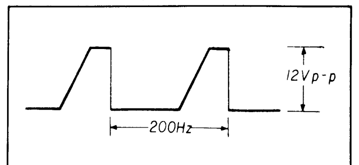


Q4-C PAL (PB)

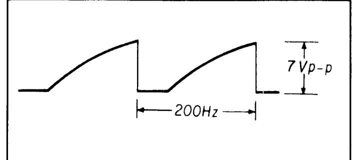


Q11, Q12-B (PB/REC)

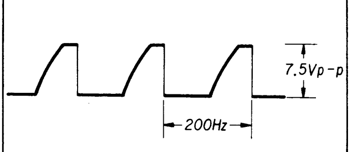
SV-2 BOARD



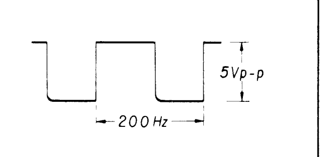
IC101 ⑦ REC/PB



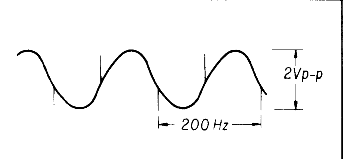
IC101 ⑨ REC/PB



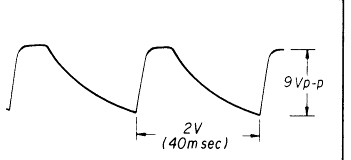
IC101 ⑪ REC/PB



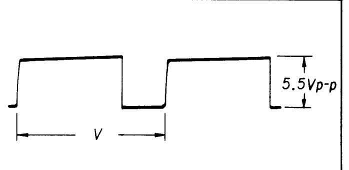
IC101 ⑫ REC/PB



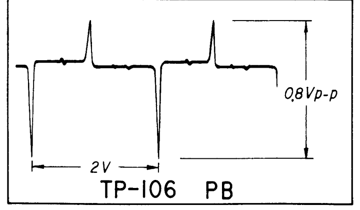
IC101 ⑬ REC/PB



IC101 ⑳ REC/PB

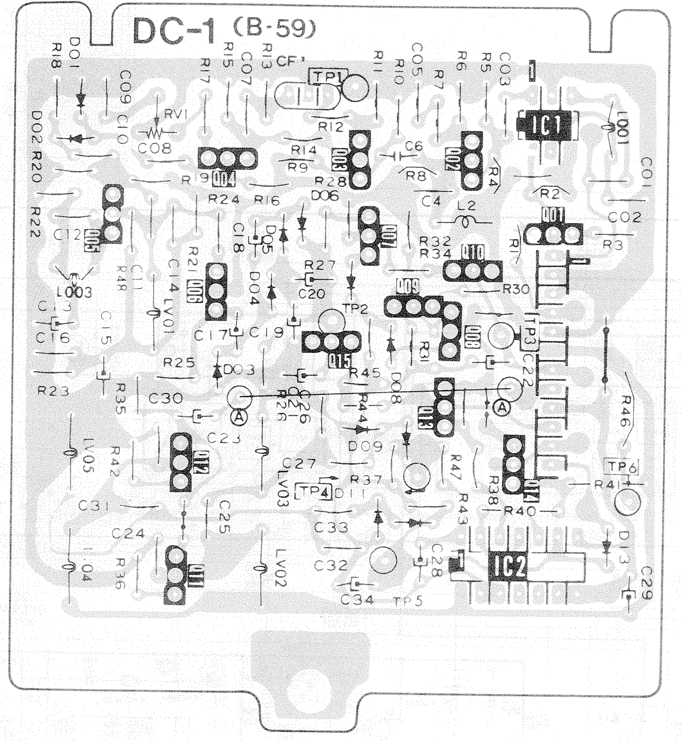


TP-106 REC

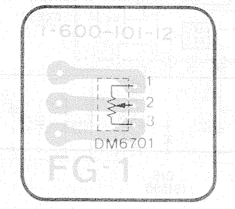


TP-106 PB

DC-1 BOARD


DC-1 (B-59)
IC1
IC2
TP1
TP2
TP3
TP4
TP5
TP6

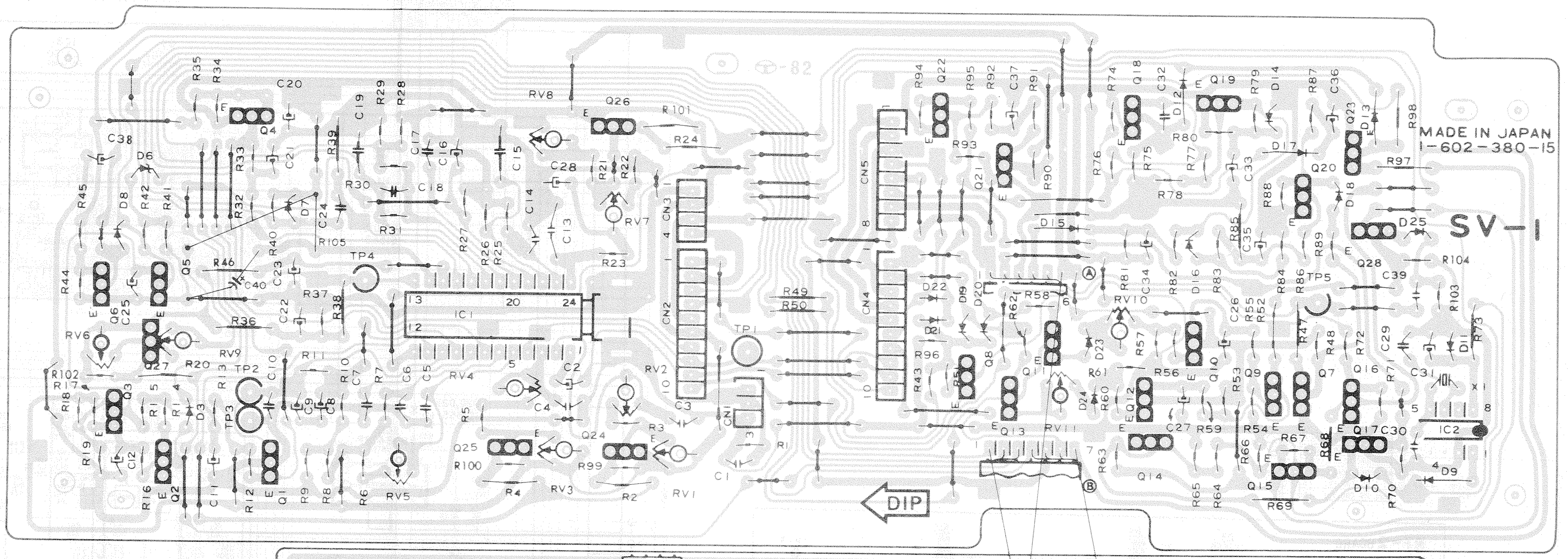
FG-1 BOARD

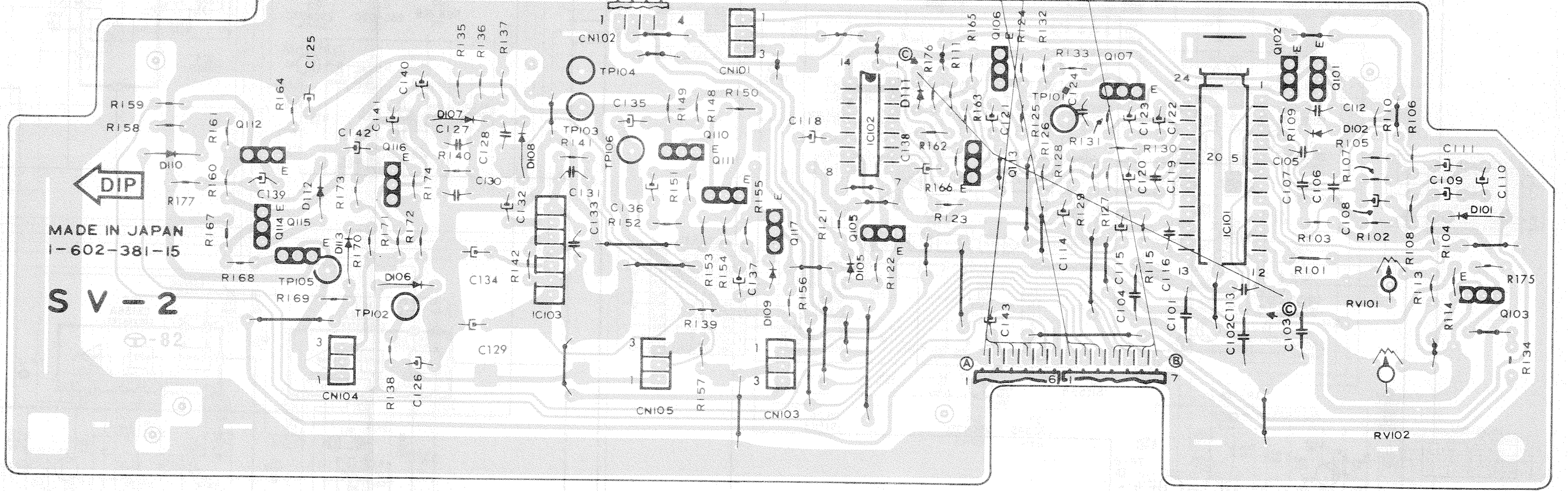

1-600-101-12
DM6701
FG-1

▨ : B+ Pattern

SV-1 BOARD

	K	L	M	N	O
Q, IC	6 5 27 3 2	4 1 IC1 25	26 24	22 21 8 13 11 18 12 14	19 10 20 23 28 9 7 16 15 17 IC2
D	8 6 3	7		22 21 19 20 15 23 24 12 16	14 17 18 13 25 10 9 11
ADJ	RV6 RV9	RV5 RV8 RV4 RV3	RV7 RV2 RV1	RV11 RV10	


MADE IN JAPAN
1-602-380-15
SV-1
DIP
IC1
IC2
TP1
TP2
TP3
TP4
TP5


DIP
MADE IN JAPAN
1-602-381-15
SV-2
IC101
IC102
IC103
CN101
CN102
CN103
CN104
CN105
RV101
RV102

	K	L	M	N	O
Q, IC		112 114 115 116	IC103 110 111 117 IC102 105	106 113 107	IC101 102 101 103
D	110	112 113 106 107 108	109 105	111	102 101
ADJ					RV101 RV102

SV-2 BOARD

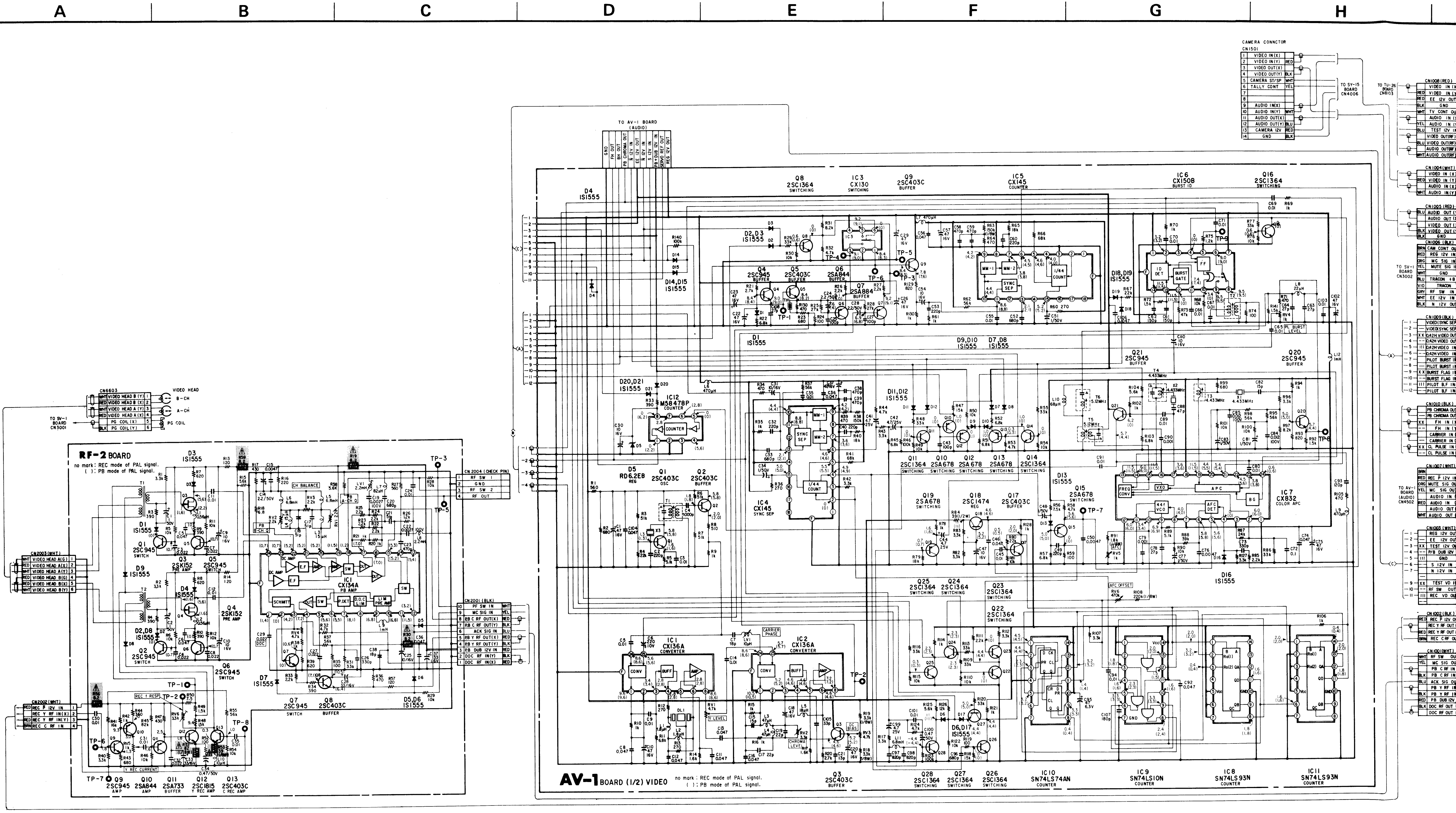
NOTES:

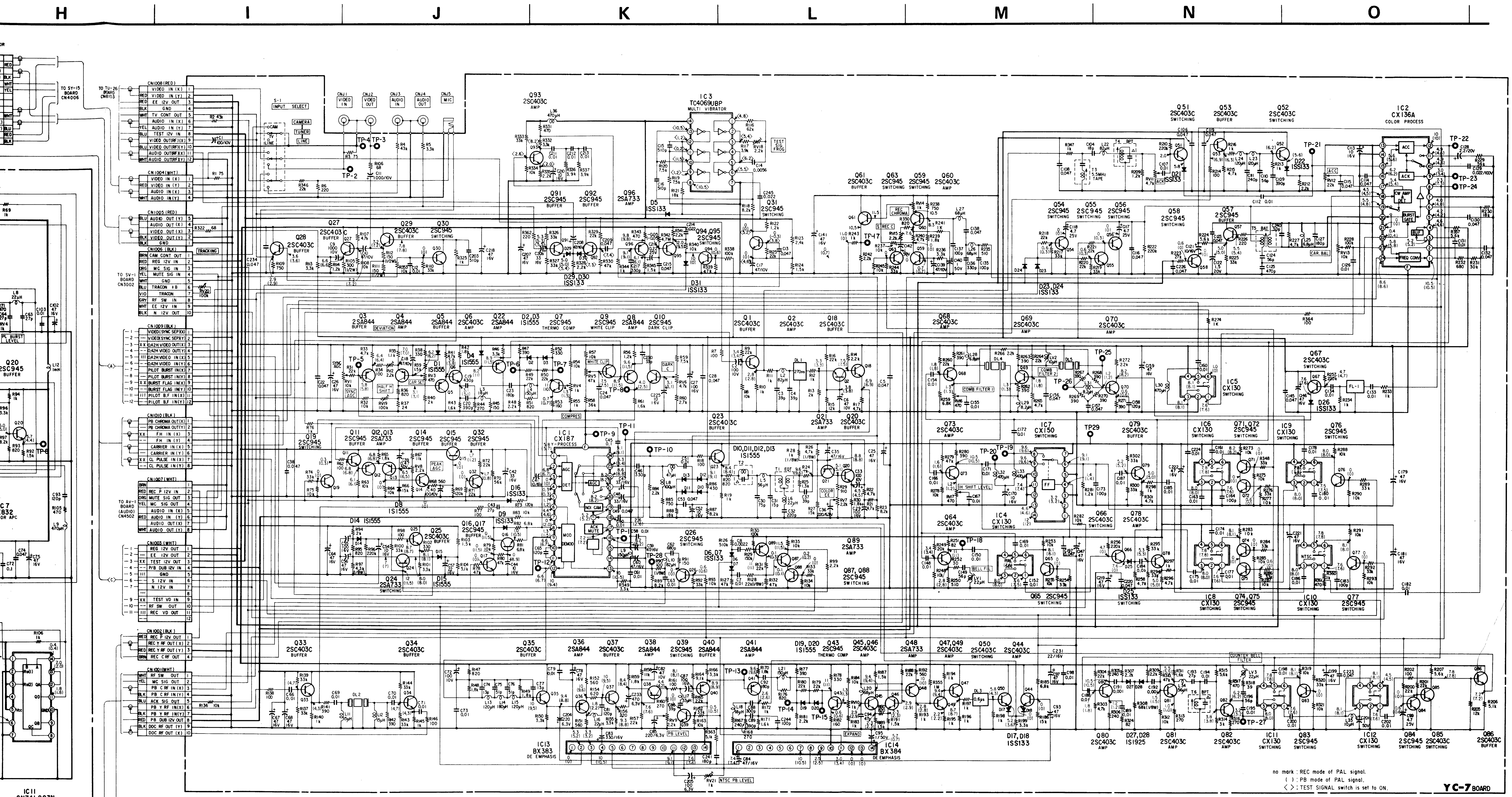
- All resistors are in ohms, 1/4 W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000kΩ
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊡ : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20kΩ/V).

RF-2 (LOW CONVERTED)
– Ref. No. 2000 series –

YC-7 (Y & CHROMA SIGNAL RECORD/PLAYBACK PROCESS)
– Ref. No. 1000 series –

AV-1 (CHROMA SIGNAL PROCESS, AUDIO RECORD & PLAYBACK CIRCUIT)
– Ref. No. 5400 series –


A
B
C
D
E
F
G
H
1
2
3
4
5
RF-2 BOARD
no mark: REC mode of PAL signal.
( ): PB mode of PAL signal.
CN6603
VIDEO HEAD B (Y)
VIDEO HEAD B (X)
VIDEO HEAD A (Y)
VIDEO HEAD A (X)
PG COIL (X)
PG COIL (Y)
VIDEO HEAD
B-CH
A-CH
PG COIL
TO SV-1 BOARD CN3001
CN2003 (WHT)
CN2002 (WHT)
REC P 12V IN
REC Y RF IN (X)
REC Y RF IN (Y)
REC C RF IN
CN2004 (CHECK PIN)
RF SW 1
GND
RF SW 2
RF OUT
CN2001 (BLK)
PF SW IN
MC SIG IN
RB C RF OUT(X)
RB C RF OUT(Y)
ACK SIG IN
RB Y RF OUT(X)
RB Y RF OUT(Y)
PB DUB 12V IN
DOC RF IN(Y)
DOC RF IN(X)
IC1 CX134A PB AMP
Q1 2SC945 SWITCH
Q2 2SC945 SWITCH
Q3 2SK152 PRE AMP
Q4 2SK152 PRE AMP
Q5 2SC945 SWITCH
Q6 2SC945 SWITCH
Q7 2SC945 SWITCH
Q8 2SC403C BUFFER
Q9 2SC945 AMP
Q10 2SA844 AMP
Q11 2SA733 BUFFER
Q12 2SC1815 Y REC AMP
Q13 2SC403C C REC AMP
D1 1S1555
D2,D8 1S1555
D3 1S1555
D4 1S1555
D5,D6 1S1555
D7 1S1555
D9 1S1555
TP-1
TP-2
TP-3
TP-5
TP-6
TP-7
TP-8
REC I RESP
Y REC CURRENT
CH BALANCE
TO AV-1 BOARD (AUDIO)
CAMERA CONNCTOR CN1501
VIDEO IN(X)
VIDEO IN(Y)
VIDEO OUT(X)
VIDEO OUT(Y)
CAMERA ST/SP
TALLY CONT
AUDIO IN(X)
AUDIO IN(Y)
AUDIO OUT(X)
AUDIO OUT(Y)
CAMERA 12V
GND
TO SV-15 BOARD CN4006
TO TU-26 BOARD CN8103
CN1008 (RED)
CN1004 (WHT)
CN1005 (RED)
CN1006 (BLK)
TO SV-1 BOARD CN3002
CN1009 (BLK)
CN1010 (BLK)
CN1007 (WHT)
TO AV-1 BOARD (AUDIO) CN4502
CN1003 (WHT)
CN1002 (BLK)
CN1001 (WHT)
Q8 2SC1364 SWITCHING
IC3 CX130 SWITCHING
Q9 2SC403C BUFFER
IC5 CX145 COUNTER
IC6 CX150B BURST ID
Q16 2SC1364 SWITCHING
Q4 2SC945 BUFFER
Q5 2SC403C BUFFER
Q6 2SA844 BUFFER
Q7 2SA884 BUFFER
D1 1S1555
D2,D3 1S1555
D4 1S1555
D14,D15 1S1555
D18,D19 1S1555
D9,D10 1S1555
D7,D8 1S1555
D11,D12 1S1555
D20,D21 1S1555
IC12 M58478P COUNTER
IC4 CX145 SYNC SEP
D5 RD6.2EB REG
Q1 2SC403C OSC
Q2 2SC403C BUFFER
Q11 2SC1364 SWITCHING
Q10 2SA678 SWITCHING
Q12 2SA678 SWITCHING
Q13 2SA678 SWITCHING
Q14 2SC1364 SWITCHING
Q19 2SA678 SWITCHING
Q18 2SC1474 REG
Q17 2SC403C BUFFER
D13 1S1555
Q15 2SA678 SWITCHING
Q21 2SC945 BUFFER
Q20 2SC945 BUFFER
IC7 CX832 COLOR APC
D16 1S1555
Q25 2SC1364 SWITCHING
Q24 2SC1364 SWITCHING
Q23 2SC1364 SWITCHING
Q22 2SC1364 SWITCHING
IC1 CX136A CONVERTER
IC2 CX136A CONVERTER
CARRIER PHASE
Y LEVEL
CHROMA LEVEL
DC BIAS
AFC OFFSET
BURST LEVEL
D6,D17 1S1555
Q3 2SC403C BUFFER
Q28 2SC1364 SWITCHING
Q27 2SC1364 SWITCHING
Q26 2SC1364 SWITCHING
IC10 SN74LS74AN COUNTER
IC9 SN74LS10N COUNTER
IC8 SN74LS93N COUNTER
IC11 SN74LS93N COUNTER
AV-1 BOARD (1/2) VIDEO
no mark: REC mode of PAL signal.
( ): PB mode of PAL signal.


H
I
J
K
L
M
N
O
IC3 TC4069UBP MULTI VIBRATOR
IC2 CX136A COLOR PROCESS
IC1 CX187 PROCESS
IC7 CX150 SWITCHING
IC4 CX130 SWITCHING
IC5 CX130 SWITCHING
IC6 CX130 SWITCHING
IC8 CX130 SWITCHING
IC9 CX130 SWITCHING
IC10 CX130 SWITCHING
IC11 CX130 SWITCHING
IC12 CX130 SWITCHING
IC13 BX383 DE EMPHASIS
IC14 BX384 DE EMPHASIS
IC11 SN74LS93N COUNTER
S-1 INPUT SELECT
CN1008 (RED)
CN1004 (WHT)
CN1005 (RED)
CN1006 (BLK)
CN1009 (BLK)
CN1010 (BLK)
CN1007 (WHT)
CN1003 (WHT)
CN1002 (BLK)
CN1001 (WHT)
TO SY-15 BOARD CN4006
TO TU-26 BOARD CN8103
TO SY-1 BOARD CN3002
TO AV-1 BOARD (AUDIO) CN4502
TP-22
TP-23
TP-24
no mark : REC mode of PAL signal.
( ) : PB mode of PAL signal.
< > : TEST SIGNAL switch is set to ON.
YC-7 BOARD

NOTES:

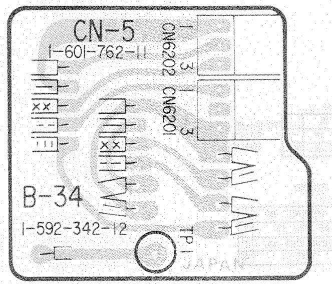
- All resistors are in ohms, 1/4 W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000kΩ
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ▭ : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20kΩ/V).

The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

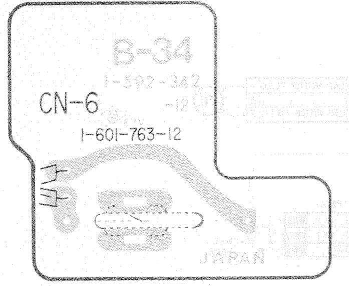
CN-5 (RELAY) — Ref. No. 6200 series —
CN-6 (SLACK SENSOR) — Ref. No. 6200 series —
LS-3 (DRUM MOTOR & CAPSTAN MOTOR DRIVE) — Ref. No. 3500 series —
PL-2 (SOLENOID DRIVE) — Ref. No. 4600 series —
SY-15 (SYSTEM CONTROL CIRCUIT) — Ref. No. 4000 series —
SY-14 (FUNCTION KEY GROUP, DISPLAY LAMP GROUP & ANT SWITCHING

A B C D E F G H

CN-5 BOARD

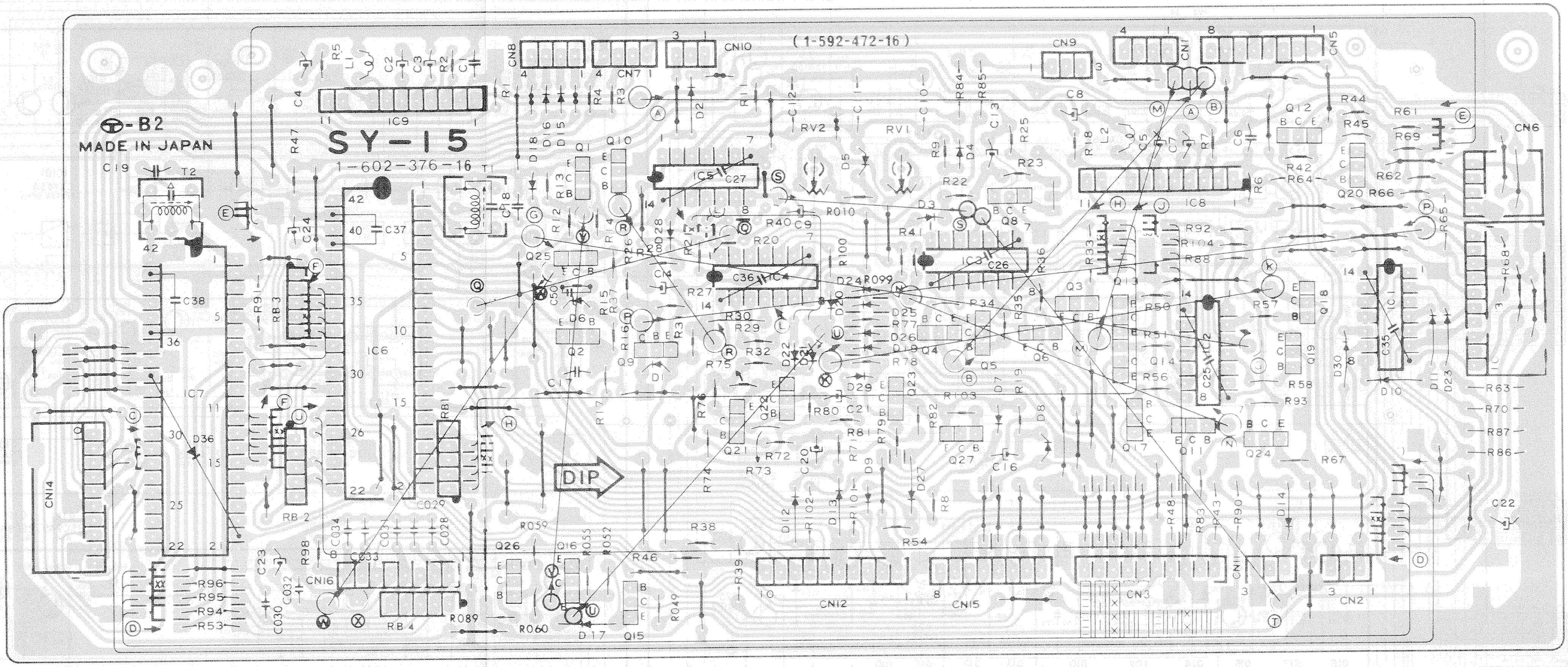

CN-5
1-601-762-11
CN6202
CN6201
B-34
1-592-342-12
TP1
JAPAN

CN-6 BOARD


B-34
1-592-342-12
CN-6
1-601-763-12
JAPAN

SY-15 BOARD

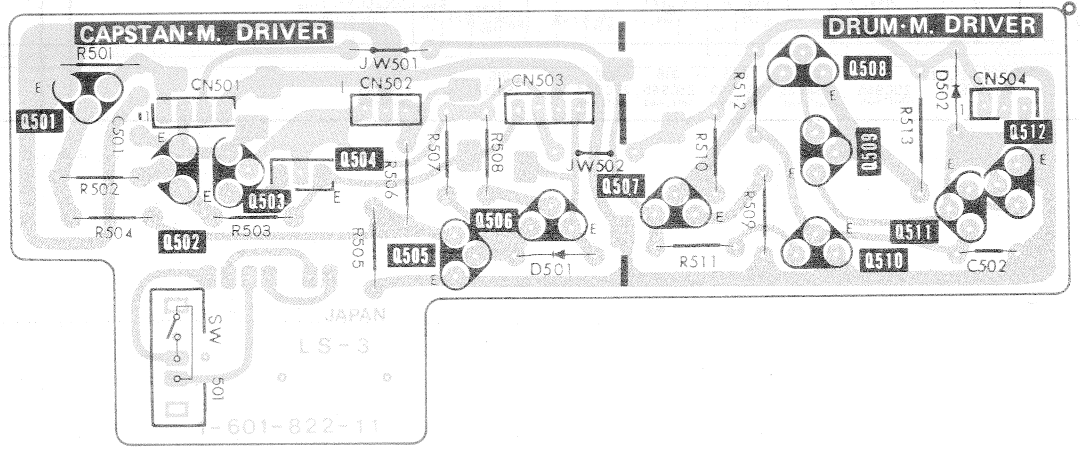
	C	D	E	F	G	
Q, IC	IC7	IC9, IC6, 1, 25, 2, 16, 26	10, 9, 15, IC5, 21, IC4, 22	23, 4, IC3, 5, 27, 8, 6, 3, 13, 14, 17	IC8, IC2, 11, 12, 18, 19, 24, 20, IC1	Q, IC
D	36	18, 16, 15, 6	17, 1, 28, 2, 22, 21, 20, 12, 13, 29, 5, 9	24, 25, 26, 19, 27, 3, 4, 7, 8	14, 30, 10, 11, 23	D
ADJ			RV2	RV1		ADJ

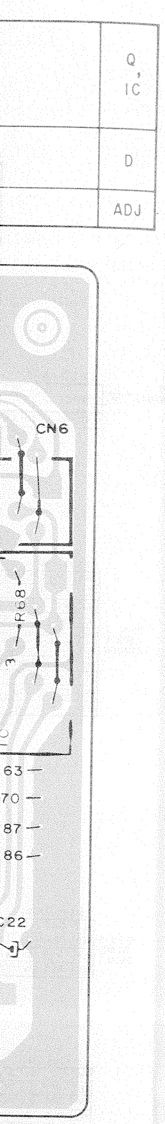

B2
MADE IN JAPAN
SY-15
1-602-376-16
(1-592-472-16)
IC9
IC7
IC6
IC5
IC4
IC3
IC8
IC2
IC1
CN2
CN3
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN14
CN15
CN16
RV1
RV2
DIP

▨ : B+ Pattern

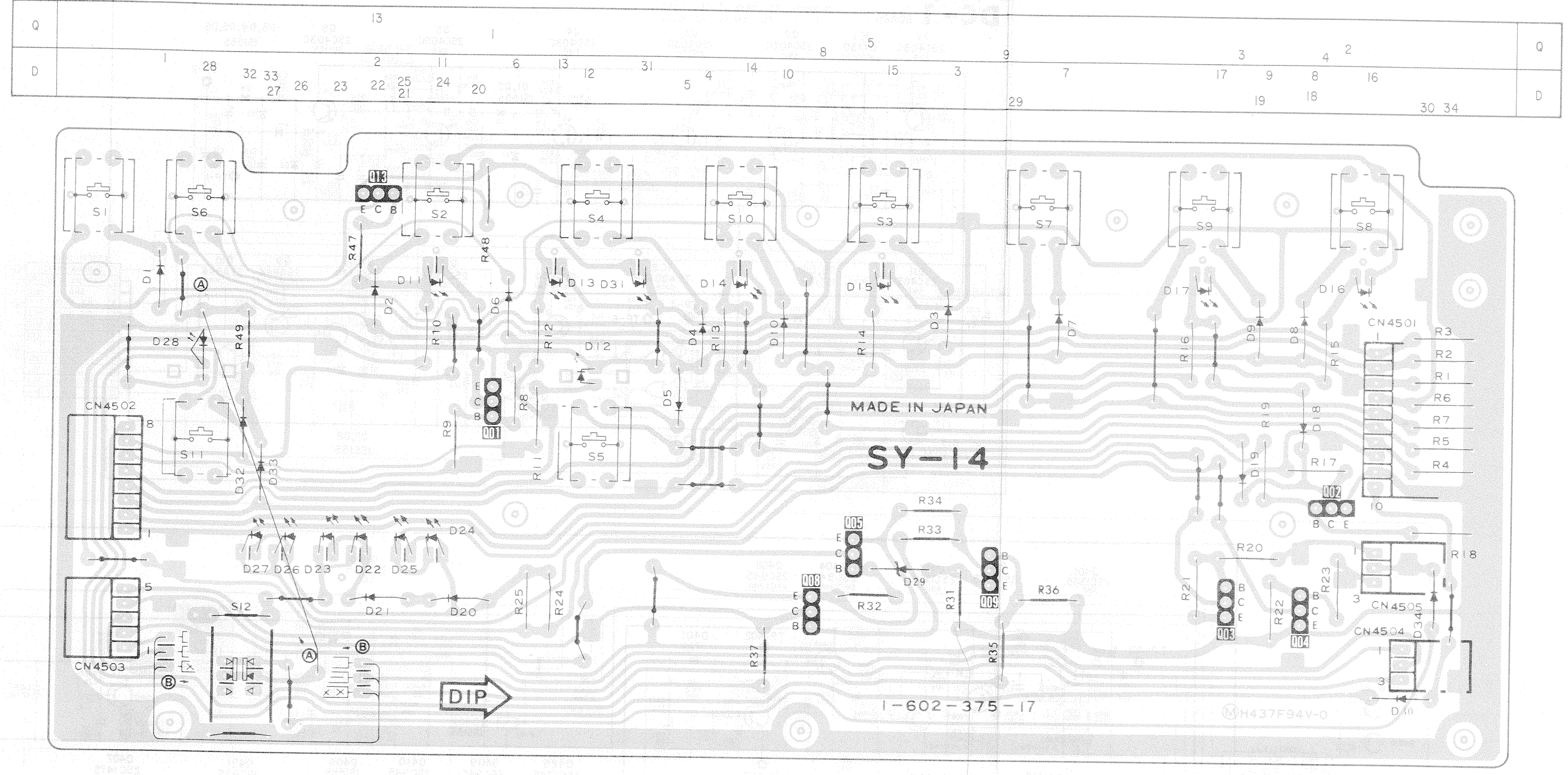
LS-3 BOARD

	E	F	G	
Q	501, 502, 503, 504	505, 506, 507	508, 509, 510, 511, 512	Q
D		501	502	D

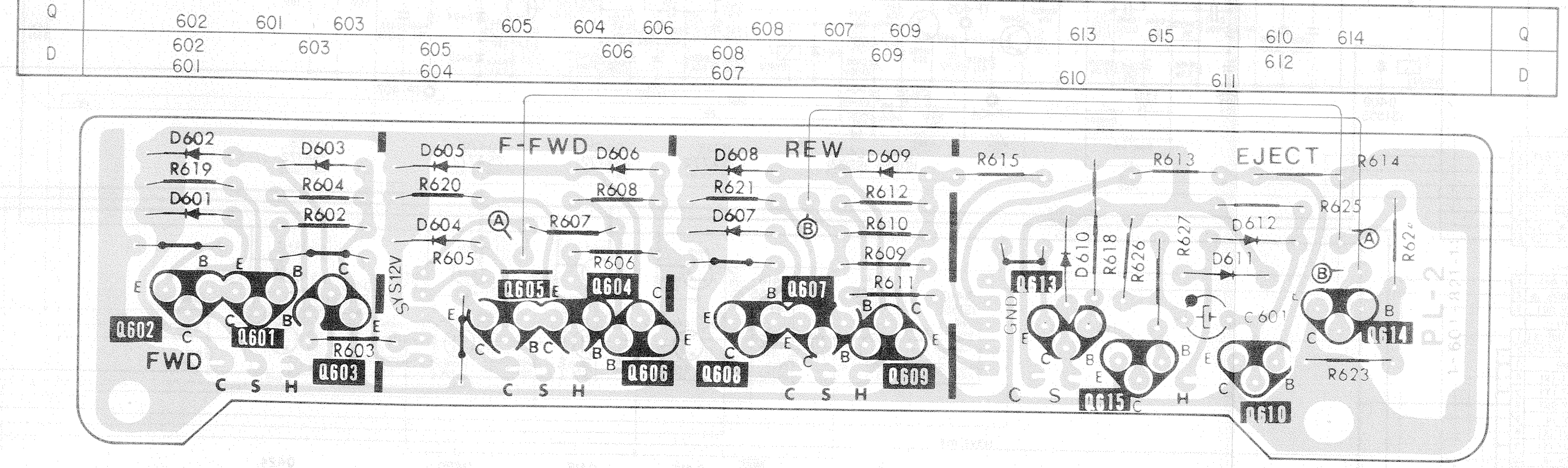

CAPSTAN-M. DRIVER
DRUM-M. DRIVER
R501
Q501
CN501
C501
R502
R504
Q502
Q503
Q504
R503
JW501
CN502
R506
R507
R505
Q505
Q506
CN503
R508
JW502
Q507
D501
R510
R512
R511
R509
Q508
Q509
R513
D502
CN504
Q512
Q510
Q511
C502
JAPAN
LS-3
SW 501
601-822-11


Q
IC
D
ADJ
CN6
R68
63
70
87
86
C22

SY-14 BOARD


Q
D
S1
S6
Q013
E C B
S2
S4
S10
S3
S7
S9
S8
S11
S5
S12
R47
R48
D1
D2
D11
D6
D13
D31
D14
D15
D17
D16
D28
R49
R10
R12
D12
D4
R13
D10
R14
D3
D7
R16
D9
D8
R15
CN4501
R3
R2
R1
R6
R7
R5
R4
CN4502
E
C
B
Q001
R8
R9
R11
D5
MADE IN JAPAN
SY-14
D32
D33
R19
D18
D19
R17
Q002
B C E
R34
R33
Q005
D24
D27
D26
D23
D22
D25
D29
Q008
R32
R31
Q009
R36
R20
R21
Q003
R22
Q004
R23
CN4505
R18
CN4504
D34
D21
D20
R25
R24
R37
R35
CN4503
DIP
1-602-375-17
H437F94V-0
D40

PL-2 BOARD


Q
D
D602
R619
D601
D603
R604
R602
D605
R620
F-FWD
D606
R608
D608
R621
D607
REW
D609
R612
R610
R609
R611
R615
R613
EJECT
R614
R625
D612
D611
D604
R605
R607
R606
SYS12V
Q605
Q604
Q606
Q607
Q608
Q609
Q602
Q601
Q603
R603
FWD
C S H
GND
Q613
D610
R618
R626
R627
C601
Q615
Q610
Q614
R623
PL-2

SY-15 BOARD

IC7

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CUE	6.6	—	—	0	0.7	9.8	0	0	0	0	0	0.7	0.4	0.4
REV	6.6	—	—	0	0.7	9.8	0	0	0	0	0	0.4	0.4	0.4
PB + PAUSE	6.6	—	—	0	0	9.8	0	0	0	0	0	0.4	0.4	0.4

MODE \ PIN	15	16	17	18	19	20	21	22	23	24	25	26	27	28
CUE	0.4	3.4	0	0	0	9.8	9.8	0	0	0	0	0.5	0.5	0.5
REV	0.7	3.4	0	0	0	9.8	9.8	0	0	0	0	0.5	0.5	0.5
PB + PAUSE	0.4	3.0	0	0	0	9.8	9.8	0	0	0	0	0.5	0.5	0.5

MODE \ PIN	29	30	31	32	33	34	35	36	37	38	39	40	41	42
CUE	0.4	7.8	0	0	0.4	0.4	0.4	0.4	9.8	0	0.1	0.1	0	6.6
REV	0.4	7.8	0	0	0	0.4	0.4	0.8	9.8	0	0.1	0.1	0	6.6
PB + PAUSE	0.4	7.8	0	0	0	0.4	0.4	0.4	9.8	0	0.1	0	0	6.6

IC6

MODE \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CUE	6.4	0	0	0	8.9	9.8	0	0	0	0	0	0	0.2	8.5
REV	6.4	0	0	0	8.9	9.8	0	0	0	0	0	0	8.6	0.2
PB + PAUSE	6.4	0	0	9.8	0	9.8	0	0	0	0	0	0	0	0

MODE \ PIN	15	16	17	18	19	20	21	22	23	24	25	26	27	28
CUE	0	0	0	9.8	9.8	9.8	9.8	0	0	0	0	0	0	0
REV	0	0	9.8	0	9.8	9.8	9.8	0	0	0	0	0	0	0
PB + PAUSE	8.9	0	0	0	9.8	9.8	9.8	0	0	0	0	9.6	9.8	0

MODE \ PIN	29	30	31	32	33	34	35	36	37	38	39	40	41	42
CUE	0	0	9.8	0.7	0.7	0.4	0.4	0.4	3.8	0	9.8	3.3	0	6.4
REV	0	0	9.8	0.7	0.4	0.4	0.4	0.8	3.8	0	9.8	3.2	0	6.4
PB + PAUSE	0	0	9.8	0.6	0.4	0.4	0.4	0.4	3.8	0	9.8	3.0	0	6.4

DC-1 BOARD

IC 1

MODE \ PIN	1	2	3	4	5	6
SECAM(REC)	7.6	—	8.0	—	8.0	6.9
SECAM(PB)	7.6	—	8.0	—	8.0	7.2
NTSC (PB) 4.43MHz	7.6	—	8.0	—	8.0	7.2

IC 2

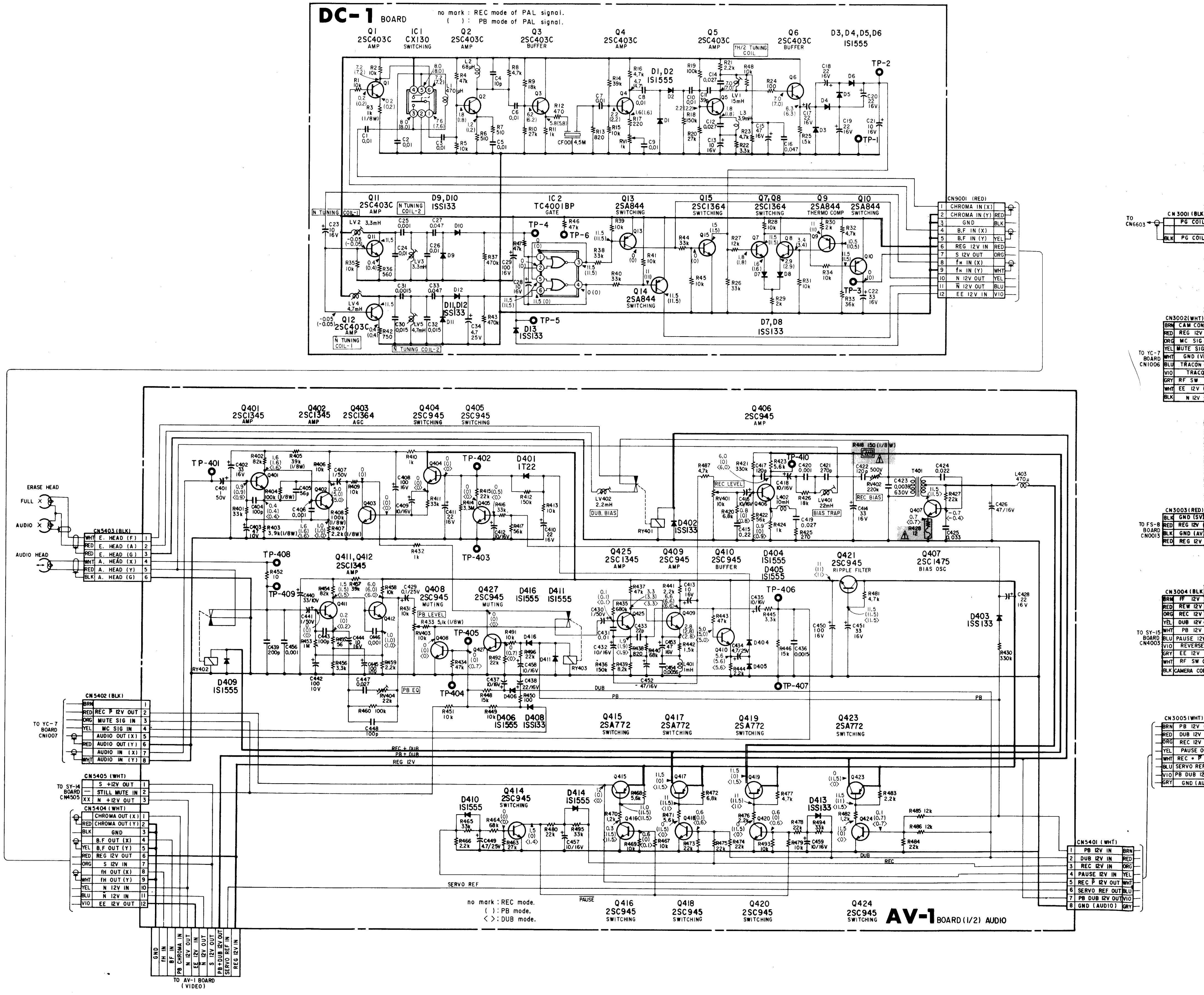
MODE \ PIN	1	2	3	4	5	6
SECAM(REC)	0	0	11.5	0	11.5	11.5
SECAM (PB)	0	0	11.5	0	11.5	0
NTSC (PB) 4.43MHz	0	11.5	0	11.5	0	0

Q	Q1			Q2			Q3			Q4		
MODE	E	C	B	E	C	B	E	C	B	E	C	B
SECAM(REC)	0.2	6.9	0.2	1.2	—	1.8	5.8	—	6.2	1.6	4.7	2.2
SECAM (PB)	0.2	7.2	0.2	1.2	—	1.8	5.8	—	6.2	1.6	4.7	2.2
NTSC (PB) 4.43MHz	0.2	7.2	0.2	1.2	—	1.8	5.8	—	6.2	1.6	4.7	2.2

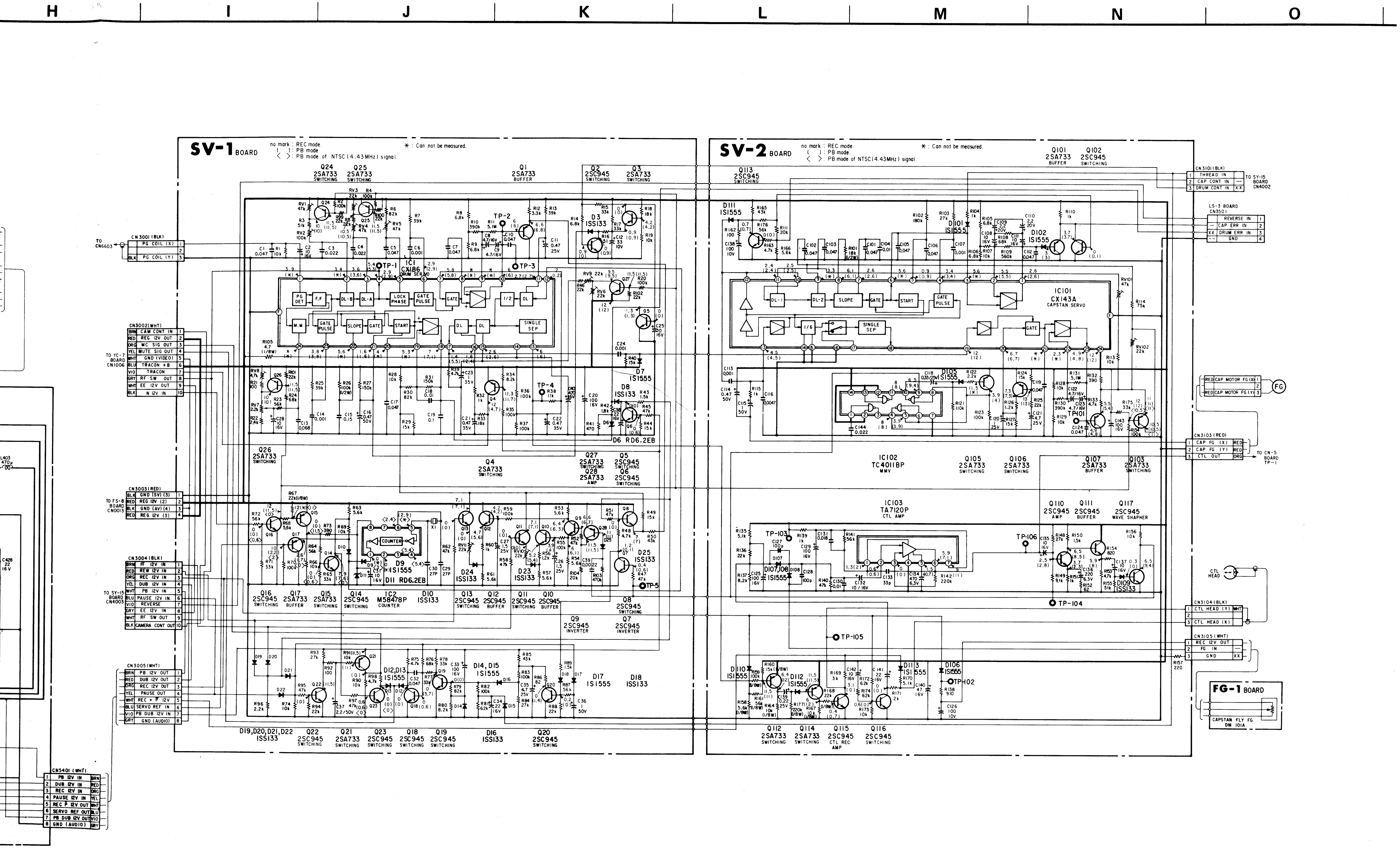
Q	Q5			Q6			Q7			Q8		
MODE	E	C	B	E	C	B	E	C	B	E	C	B
SECAM(REC)	2.0	7.0	2.2	6.7	—	7.0	4.0	4.0	4.6	2.9	—	3.4
SECAM (PB)	1.8	7.0	2.2	6.7	—	7.0	4.0	4.0	4.6	2.9	—	3.4
NTSC (PB) 4.43MHz	2.0	7.0	2.2	6.3	—	7.0	0	11.5	0	2.9	—	3.4

Q	Q9			Q10			Q11			Q12		
MODE	E	C	B	E	C	B	E	C	B	E	C	B
SECAM(REC)	11	3.4	10.5	—	11.5	11	0.6	—	-0.03	0.6	—	-0.03
SECAM (PB)	11	3.4	10.5	—	11.5	11	0.4	—	-0.03	0.4	—	-0.03
NTSC (PB) 4.43MHz	11	3.4	10.5	—	0	11.5	0.4	—	-0.03	0.4	—	-0.03

Q	Q13			Q14			Q15					
MODE	E	C	B	E	C	B	E	C	B			
SECAM(REC)	—	0	11.5	—	11.5	11	—	7.0	0			
SECAM (PB)	—	0	11.5	—	11.5	11	—	7.7	0			
NTSC (PB) 4.43MHz	—	11.5	11	—	0	11.5	—	0	0.6			


DC-1 BOARD
no mark : REC mode of PAL signal.
( ) : PB mode of PAL signal.
Q1 2SC403C AMP
IC1 CX130 SWITCHING
Q2 2SC403C AMP
Q3 2SC403C BUFFER
Q4 2SC403C AMP
Q5 2SC403C AMP
Q6 2SC403C BUFFER
D3, D4, D5, D6 1S1555
D1, D2 1S1555
TP-1
TP-2
Q11 2SC403C AMP
D9, D10 1SS133
IC2 TC4001BP GATE
Q13 2SA844 SWITCHING
Q15 2SC1364 SWITCHING
Q7, Q8 2SC1364 SWITCHING
Q9 2SA844 THERMO COMP
Q10 2SA844 SWITCHING
Q12 2SC403C AMP
D11, D12 1SS133
D13 1SS133
Q14 2SA844 SWITCHING
D7, D8 1SS133
TP-3
TP-4
TP-5
TP-6
N TUNING COIL-1
N TUNING COIL-2
CN9001 (RED)
CHROMA IN (X)
CHROMA IN (Y)
GND
B.F IN (X)
B.F IN (Y)
REG 12V IN
S 12V OUT
fH IN (X)
fH IN (Y)
N 12V OUT
N̄ 12V OUT
EE 12V IN
Q401 2SC1345 AMP
Q402 2SC1345 AMP
Q403 2SC1364 AGC
Q404 2SC945 SWITCHING
Q405 2SC945 SWITCHING
Q406 2SC945 AMP
D401 1T22
D402 1SS133
TP-401
TP-402
TP-403
TP-404
TP-405
TP-406
TP-407
TP-408
TP-409
TP-410
ERASE HEAD
FULL
AUDIO
AUDIO HEAD
CN5403 (BLK)
E. HEAD (F)
E. HEAD (A)
E. HEAD (G)
A. HEAD (X)
A. HEAD (Y)
A. HEAD (G)
Q411, Q412 2SC1345 AMP
Q408 2SC945 MUTING
Q427 2SC945 MUTING
D416 1S1555
D411 1S1555
Q425 2SC1345 AMP
Q409 2SC945 AMP
Q410 2SC945 BUFFER
D404 1S1555
D405 1S1555
Q421 2SC945 RIPPLE FILTER
Q407 2SC1475 BIAS OSC
D403 1SS133
D409 1S1555
D406 1S1555
D408 1SS133
REC LEVEL
REC BIAS
BIAS TRAP
DUB. BIAS
PB LEVEL
PB EQ
CN5402 (BLK)
REC P 12V OUT
MUTE SIG IN
MC SIG IN
AUDIO OUT (X)
AUDIO OUT (Y)
AUDIO IN (X)
AUDIO IN (Y)
TO YC-7 BOARD CN1007
CN5405 (WHT)
S +12V OUT
STILL MUTE IN
N +12V OUT
TO SY-14 BOARD CN4505
CN5404 (WHT)
CHROMA OUT (X)
CHROMA OUT (Y)
GND
B.F OUT (X)
B.F OUT (Y)
REG 12V OUT
S 12V IN
fH OUT (X)
fH OUT (Y)
N 12V IN
N̄ 12V IN
EE 12V OUT
TO AV-1 BOARD (VIDEO)
Q415 2SA772 SWITCHING
Q417 2SA772 SWITCHING
Q419 2SA772 SWITCHING
Q423 2SA772 SWITCHING
D410 1S1555
Q414 2SC945 SWITCHING
D414 1S1555
D413 1SS133
Q416 2SC945 SWITCHING
Q418 2SC945 SWITCHING
Q420 2SC945 SWITCHING
Q424 2SC945 SWITCHING
no mark : REC mode.
( ) : PB mode.
< > : DUB mode.
AV-1 BOARD (1/2) AUDIO
CN5401 (WHT)
PB 12V IN
DUB 12V IN
REC 12V IN
PAUSE 12V IN
REC P 12V OUT
SERVO REF OUT
PB DUB 12V OUT
GND (AUDIO)
SERVO REF
PAUSE
REC + DUB
PB + DUB
REG 12V
TO CN6603
CN3001 (BLK)
TO YC-7 BOARD CN1006
CN3002 (WHT)
TO FS-8 BOARD CN0013
CN3003 (RED)
TO SY-15 BOARD CN4003
CN3004 (BLK)
CN3005 (WHT)

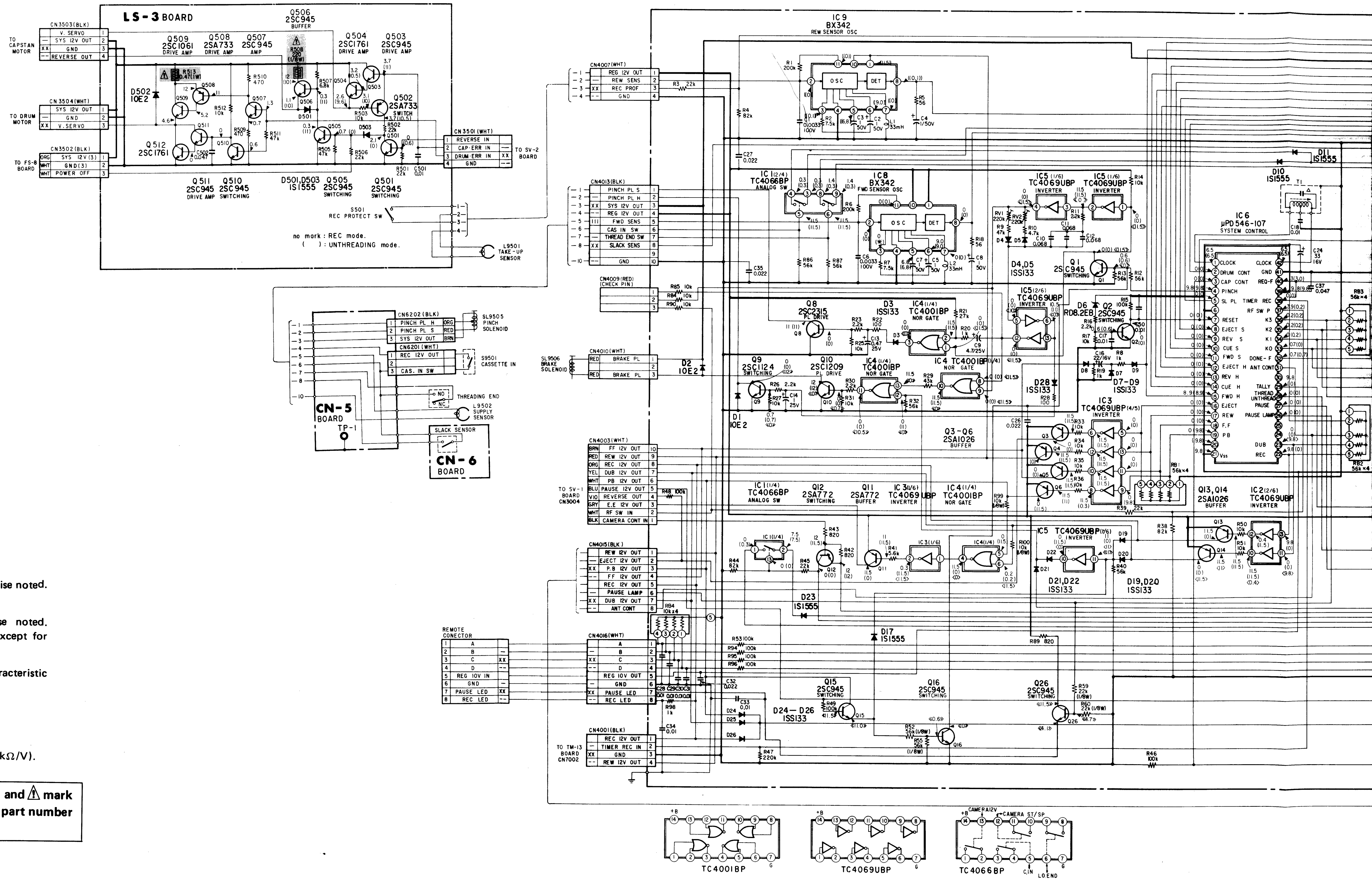
The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.


H
I
J
K
L
M
N
O
SV-1 BOARD
no mark : REC mode
( ) : PB mode
< > : PB mode of NTSC (4.43MHz) signal
* : Can not be measured.
Q24 2SA733 SWITCHING
Q25 2SA733 SWITCHING
Q1 2SA733 BUFFER
Q2 2SC945 SWITCHING
Q3 2SA733 SWITCHING
IC1 CX186 DRUM SERVO
TP-1
TP-2
TP-3
TP-4
TP-5
CN3001 (BLK)
PG COIL (X)
PG COIL (Y)
TO CN6603
CN3002 (WHT)
CAM CONT IN
REG 12V OUT
MC SIG OUT
MUTE SIG OUT
GND (VIDEO)
TRACON +B
TRACON
RF SW OUT
EE 12V OUT
N 12V IN
TO YC-7 BOARD CN1006
CN3003 (RED)
GND (SV) (3)
REG 12V (2)
GND (AV) (4)
REG 12V (3)
TO FS-8 BOARD CN0013
CN3004 (BLK)
FF 12V IN
REW 12V IN
REC 12V IN
DUB 12V IN
PB 12V IN
PAUSE 12V IN
REVERSE
EE 12V IN
RF SW OUT
CAMERA CONT OUT
TO SY-15 BOARD CN4003
CN3005 (WHT)
PB 12V OUT
DUB 12V OUT
REC 12V OUT
PAUSE OUT
REC + P 12V
SERVO REF IN
PB DUB 12V IN
GND (AUDIO)
CN5401 (WHT)
PB 12V IN
DUB 12V IN
REC 12V IN
PAUSE 12V IN
REC P 12V OUT
SERVO REF OUT
PB DUB 12V OUT
GND (AUDIO)
PG DET
F.F
DL-B
DL-A
LOCK PHASE
GATE PULSE
GATE
1/2
DL
M.M
SLOPE
START
SINGLE SEP
Q26 2SA733 SWITCHING
Q4 2SA733 SWITCHING
Q27 2SA733 SWITCHING
Q28 2SA733 AMP
Q5 2SC945 SWITCHING
Q6 2SC945 SWITCHING
D7 1S1555
D8 1SS133
D6 RD6.2EB
D3 1SS133
COUNTER
Q16 2SC945 SWITCHING
Q17 2SA733 BUFFER
Q15 2SA733 SWITCHING
Q14 2SC945 SWITCHING
IC2 M58478P COUNTER
D10 1SS133
D9 1S1555
D11 RD6.2EB
Q13 2SC945 SWITCHING
Q12 2SC945 BUFFER
Q11 2SC945 SWITCHING
Q10 2SC945 BUFFER
D23 1SS133
D24 1SS133
D25 1SS133
Q8 2SC945 SWITCHING
Q9 2SC945 INVERTER
Q7 2SC945 INVERTER
D19, D20, D21, D22 1SS133
Q22 2SC945 SWITCHING
Q21 2SA733 SWITCHING
Q23 2SC945 SWITCHING
Q18 2SC945 SWITCHING
Q19 2SC945 SWITCHING
D16 1SS133
Q20 2SC945 SWITCHING
D12, D13 1S1555
D14, D15 1S1555
D17 1S1555
D18 1SS133
SV-2 BOARD
no mark : REC mode
( ) : PB mode
< > : PB mode of NTSC (4.43MHz) signal
* : Can not be measured.
Q113 2SC945 SWITCHING
Q101 2SA733 BUFFER
Q102 2SC945 SWITCHING
D111 1S1555
D101 1S1555
D102 1S1555
IC101 CX143A CAPSTAN SERVO
DL-1
DL-2
SLOPE
GATE
START
GATE PULSE
1/6
SINGLE SEP
CN3101 (BLK)
THREAD IN
CAP CONT IN
DRUM CONT IN
TO SY-15 BOARD CN4002
LS-3 BOARD CN3501
REVERSE IN
CAP ERR IN
DRUM ERR IN
GND
CAP MOTOR FG (X)
CAP MOTOR FG (Y)
FG
D105 1S1555
TP101
IC102 TC4011BP MMV
Q105 2SA733 SWITCHING
Q106 2SA733 SWITCHING
Q107 2SA733 BUFFER
Q103 2SA733 SWITCHING
CN3103 (RED)
CAP FG (X)
CAP FG (Y)
CTL OUT
TO CN-5 BOARD TP-1
IC103 TA7120P CTL AMP
Q110 2SC945 AMP
Q111 2SC945 BUFFER
Q117 2SC945 WAVE SHAPHER
TP-103
TP-106
TP-104
TP-105
TP102
D107, 108 1S1555
D109 1SS133
CTL HEAD
CN3104 (BLK)
CTL HEAD (Y)
CTL HEAD (X)
CN3105 (WHT)
REC 12V OUT
FG IN
GND
FG-1 BOARD
CAPSTAN FLY FG DM 101A
D110 1S1555
D112 1S1555
D113 1S1555
D106 1S1555
Q112 2SA733 SWITCHING
Q114 2SA733 SWITCHING
Q115 2SC945 CTL REC AMP
Q116 2SC945 SWITCHING

SYSTEM CONTROL SYSTEM CONTROL

CN-5 (RELAY) – Ref. No. 6200 series – **CN-6** (SLACK SENSOR) – Ref. No. 6200 series – **LS-3** (DRUM MOTOR & CAPSTAN MOTOR DRIVE) **PL-2** (SOLENOID DRIVE) – Ref. No. 4600 series – **SY-15** (SYSTEM CONTROL CIRCUIT) – Ref. No. 4000 series – **SY-14** (FUNCTION KEY GROUP, DISPLAY LAMP GROUP & ANT SWITCHING

– Ref. No. 3500 series – – Ref. No. 4500 series –

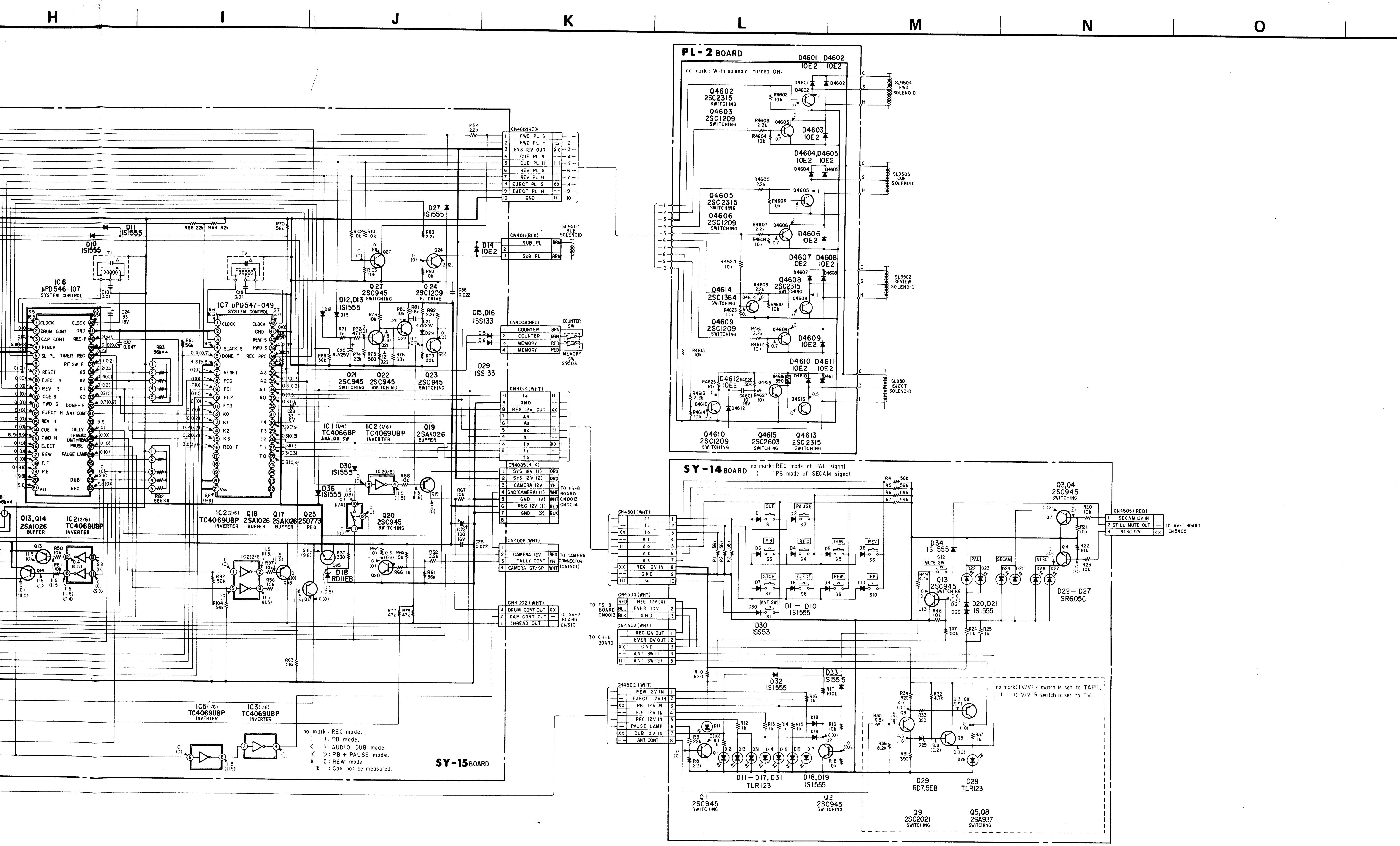

A
B
C
D
E
F
G
H
1
2
3
4
5
LS-3 BOARD
TO CAPSTAN MOTOR
CN3503(BLK)
V. SERVO
SYS 12V OUT
GND
REVERSE OUT
TO DRUM MOTOR
CN3504(WHT)
SYS 12V OUT
GND
V. SERVO
TO FS-8 BOARD
CN3502(BLK)
SYS 12V(3)
GND(3)
POWER OFF
Q506 2SC945 BUFFER
Q509 2SC1061 DRIVE AMP
Q508 2SA733 DRIVE AMP
Q507 2SC945 AMP
Q504 2SC1761 DRIVE AMP
Q503 2SC945 DRIVE AMP
Q502 2SA733 SWITCH
D502 10E2
R513 0.47(1W)
R508 220 (1/8W)
D501
D503
Q512 2SC1761
Q511 2SC945 DRIVE AMP
Q510 2SC945 SWITCHING
D501,D503 1S1555
Q505 2SC945 SWITCHING
Q501 2SC945 SWITCHING
CN3501(WHT)
REVERSE IN
CAP·ERR IN
DRUM·ERR IN
GND
TO SV-2 BOARD
S501 REC PROTECT SW
no mark : REC mode.
( ) : UNTHREADING mode.
L9501 TAKE-UP SENSOR
CN6202(BLK)
PINCH PL H
PINCH PL S
SYS 12V OUT
CN6201(WHT)
REC 12V OUT
CAS. IN SW
SL9505 PINCH SOLENOID
S9501 CASSETTE IN
THREADING END
L9502 SUPPLY SENSOR
CN-5 BOARD
TP-1
SLACK SENSOR
CN-6 BOARD
CN4007(WHT)
REG 12V OUT
REW SENS
REC PROOF
GND
CN4013(BLK)
PINCH PL S
PINCH PL H
SYS 12V OUT
REG 12V OUT
FWD SENS
CAS IN SW
THREAD END SW
SLACK SENS
GND
CN4009(RED) (CHECK PIN)
SL9506 BRAKE SOLENOID
CN4010(WHT)
BRAKE PL
D2 10E2
CN4003(WHT)
FF 12V OUT
REW 12V OUT
REC 12V OUT
DUB 12V OUT
PB 12V OUT
PAUSE 12V OUT
REVERSE OUT
E.E 12V OUT
RF SW IN
CAMERA CONT IN
TO SV-1 BOARD CN3004
CN4015(BLK)
REW 12V OUT
EJECT 12V OUT
P.B 12V OUT
FF 12V OUT
REC 12V OUT
PAUSE LAMP
DUB 12V OUT
ANT CONT
REMOTE CONECTOR
A
B
C
D
REG 10V IN
GND
PAUSE LED
REC LED
CN4016(WHT)
CN4001(BLK)
REC 12V OUT
TIMER REC IN
GND
REW 12V OUT
TO TM-13 BOARD CN7002
IC9 BX342 REW SENSOR OSC
OSC
DET
IC1(2/4) TC4066BP ANALOG SW
IC8 BX342 FWD SENSOR OSC
IC5(1/6) TC4069UBP INVERTER
IC5(1/6) TC4069UBP INVERTER
D10 1S1555
D11 1S1555
IC6 μPD546-107 SYSTEM CONTROL
CLOCK
DRUM CONT
CAP CONT
PINCH
SL PL
RESET
EJECT S
REV S
CUE S
FWD S
EJECT H
REV H
CUE H
FWD H
EJECT
REW
F.F
PB
Vss
TIMER REC
RF SW P
K3
K2
K1
K0
DONE-F
ANT CONT
TALLY
THREAD UNTHREAD
PAUSE
PAUSE LAMP
DUB
REC
D4,D5 1SS133
Q1 2SC945 SWITCHING
IC5(2/6) TC4069UBP INVERTER
D6 RD8.2EB
Q2 2SC945 SWITCHING
Q8 2SC2315 PL DRIVE
D3 1SS133
IC4(1/4) TC4001BP NOR GATE
Q9 2SC1124 SWITCHING
Q10 2SC1209 PL DRIVE
IC4(1/4) TC4001BP NOR GATE
IC4 TC4001BP(1/4) NOR GATE
D28 1SS133
D7–D9 1SS133
IC3 TC4069UBP(4/5) INVERTER
D1 10E2
Q3–Q6 2SA1026 BUFFER
RB1 56k×4
RB2 56k×4
RB3 56k×4
IC1(1/4) TC4066BP ANALOG SW
Q12 2SA772 SWITCHING
Q11 2SA772 BUFFER
IC3(1/6) TC4069UBP INVERTER
IC4(1/4) TC4001BP NOR GATE
Q13,Q14 2SA1026 BUFFER
IC2(2/6) TC4069UBP INVERTER
IC5 TC4069UBP(1/6) INVERTER
D21,D22 1SS133
D19,D20 1SS133
D23 1S1555
D17 1S1555
RB4 10k×4
Q15 2SC945 SWITCHING
D24–D26 1SS133
Q16 2SC945 SWITCHING
Q26 2SC945 SWITCHING
TC4001BP
TC4069UBP
TC4066BP
+B
CAMERA12V
CAMERA ST/SP
C.IN
LO.END

NOTES:

- All resistors are in ohms, ¼ W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000kΩ
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ▭ : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20kΩ/V).

The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

LAY LAMP GROUP & ANT SWITCHING CIRCUIT)


H
I
J
K
L
M
N
O
PL-2 BOARD
SY-14 BOARD
SY-15 BOARD
IC6 μPD546-107 SYSTEM CONTROL
IC7 μPD547-049 SYSTEM CONTROL
IC1 (1/4) TC4066BP ANALOG SW
IC2 (1/6) TC4069UBP INVERTER
IC2 (2/6) TC4069UBP INVERTER
IC3 (1/6) TC4069UBP INVERTER
IC5 (1/6) TC4069UBP INVERTER
Q13, Q14 2SA1026 BUFFER
Q17 2SA1026 BUFFER
Q18 2SA1026 BUFFER
Q19 2SA1026 BUFFER
Q20 2SC945 SWITCHING
Q21 2SC945 SWITCHING
Q22 2SC945 SWITCHING
Q23 2SC945 SWITCHING
Q24 2SC1209 PL DRIVE
Q25 2SD773 REG
Q27 2SC945 SWITCHING
D10 1S1555
D11 1S1555
D12, D13 1S1555
D14 10E2
D15, D16 1SS133
D18 RD11EB
D27 1S1555
D29 1SS133
D30 1S1555
D36 1S1555
CN4012 (RED)
CN4011 (BLK)
CN4008 (RED)
CN4014 (WHT)
CN4005 (BLK)
CN4006 (WHT)
CN4002 (WHT)
SL9507 SUB SOLENOID
COUNTER SW
MEMORY SW S9503
TO FS-8 BOARD CN0013 CN0014
TO CAMERA CONNECTOR (CN1501)
TO SV-2 BOARD CN3101
Q4602 2SC2315 SWITCHING
Q4603 2SC1209 SWITCHING
Q4605 2SC2315 SWITCHING
Q4606 2SC1209 SWITCHING
Q4608 2SC2315 SWITCHING
Q4609 2SC1209 SWITCHING
Q4614 2SC1364 SWITCHING
Q4610 2SC1209 SWITCHING
Q4615 2SC2603 SWITCHING
Q4613 2SC2315 SWITCHING
D4601 D4602 10E2
D4603 10E2
D4604, D4605 10E2
D4606 10E2
D4607 D4608 10E2
D4609 10E2
D4610 D4611 10E2
D4612 10E2
SL9504 FWD SOLENOID
SL9503 CUE SOLENOID
SL9502 REVIEW SOLENOID
SL9501 EJECT SOLENOID
CN4501 (WHT)
CN4504 (WHT)
CN4503 (WHT)
CN4502 (WHT)
CN4505 (RED)
TO FS-8 BOARD CN0013
TO CH-6 BOARD
TO AV-1 BOARD CN5405
CUE
PAUSE
PB
REC
DUB
REV
STOP
EJECT
REW
FF
ANT SW
MUTE SW
PAL
SECAM
NTSC
D1 – D10 1S1555
D30 1SS53
D32 1S1555
D33 1S1555
D34 1S1555
D20, D21 1S1555
D22 – D27 SR605C
D11 – D17, D31 TLR123
D18, D19 1S1555
D29 RD7.5EB
D28 TLR123
Q1 2SC945 SWITCHING
Q2 2SC945 SWITCHING
Q3, Q4 2SC945 SWITCHING
Q13 2SC945 SWITCHING
Q9 2SC2021 SWITCHING
Q5, Q8 2SA937 SWITCHING

no mark : With solenoid turned ON.

no mark : REC mode of PAL signal
( ) : PB mode of SECAM signal

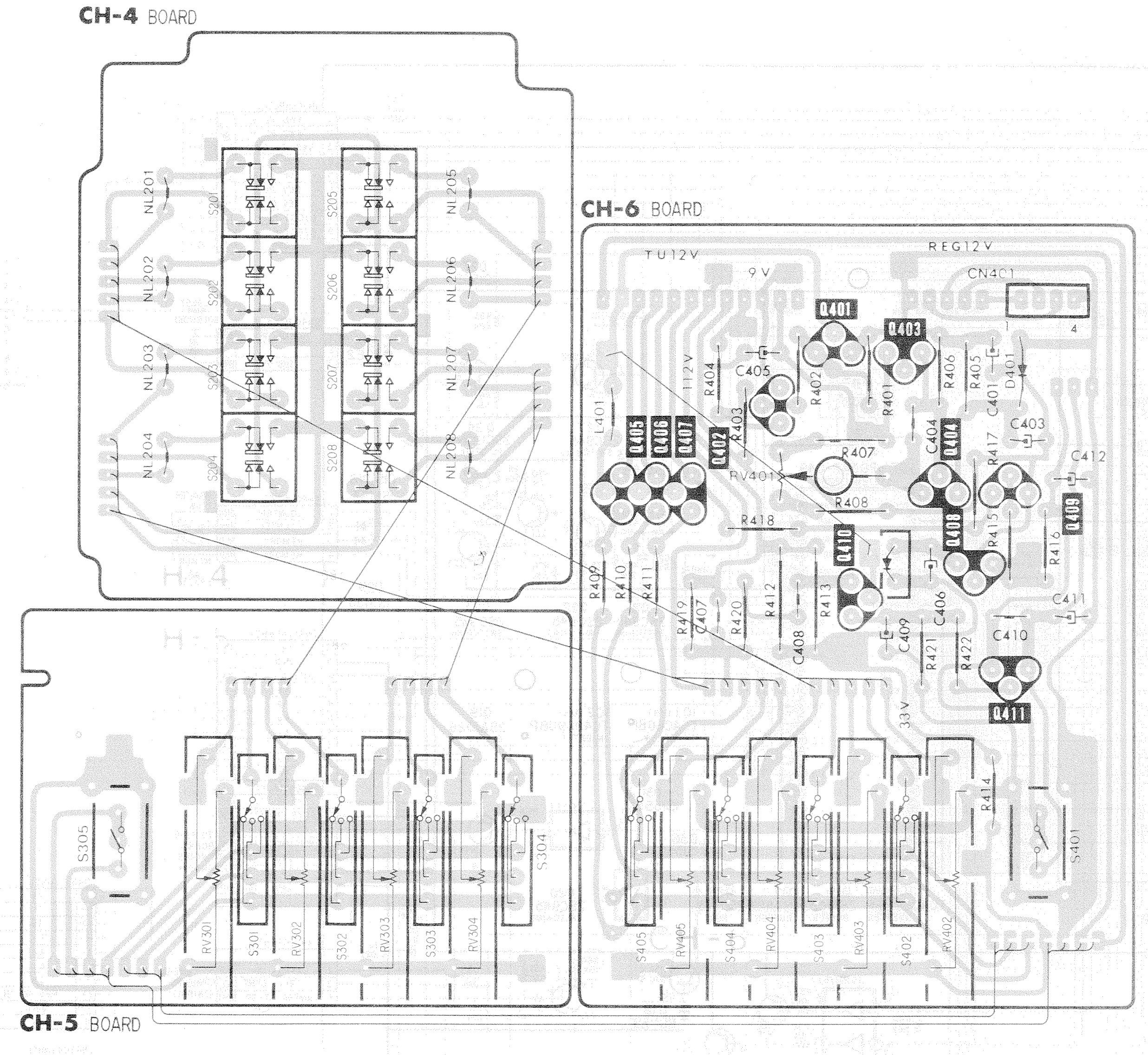
no mark : REC mode.
( ) : PB mode.
〈 〉 : AUDIO DUB mode.
《 》 : PB + PAUSE mode.
(( )) : REW mode.
* : Can not be measured.

no mark : TV/VTR switch is set to TAPE.
( ) : TV/VTR switch is set to TV.

CH-4 **CH-5** **CH-6** (TUNER PRESET) — Ref. No. 8400 series —

TU-26 (V TUNER, U TUNER) — Ref. No. 8100 series —

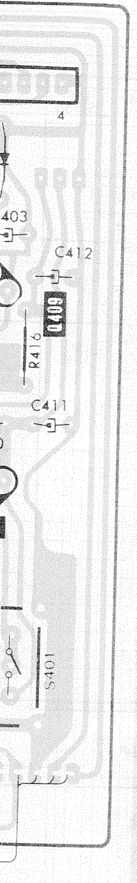
IF-10 (VIF, SIF & AFT) — Ref. No. 9500 series —


A
B
C
D
1
2
3
4
5
CH-4 BOARD
NL201
NL202
NL203
NL204
NL205
NL206
NL207
NL208
S201
S202
S203
S204
S205
S206
S207
S208
CH-6 BOARD
TU12V
9V
REG12V
CN401
Q401
Q403
Q405
Q406
Q407
Q402
Q404
Q408
Q409
Q410
Q411
L401
C405
R404
R403
R402
R401
R406
R405
C401
D401
C403
C404
R417
C412
R407
RV401
R408
R418
R415
R416
R409
R410
R411
R419
C407
R420
R412
R413
C408
C409
R421
C406
R422
C410
C411
33V
R414
S401
S402
S403
S404
S405
RV402
RV403
RV404
RV405
CH-5 BOARD
S305
S301
S302
S303
S304
RV301
RV302
RV303
RV304

▨ : B+ Pattern

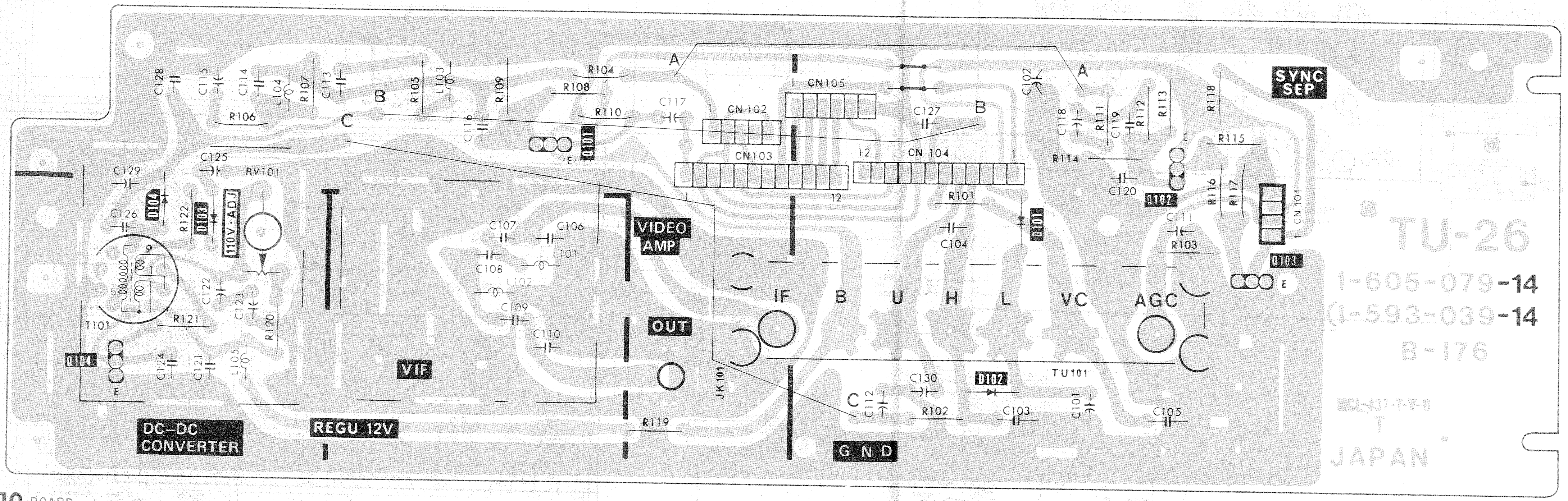
(VIF, SIF & AFT)
— Ref. No. 9500 series —

D	E	F	G	H	I	J	K



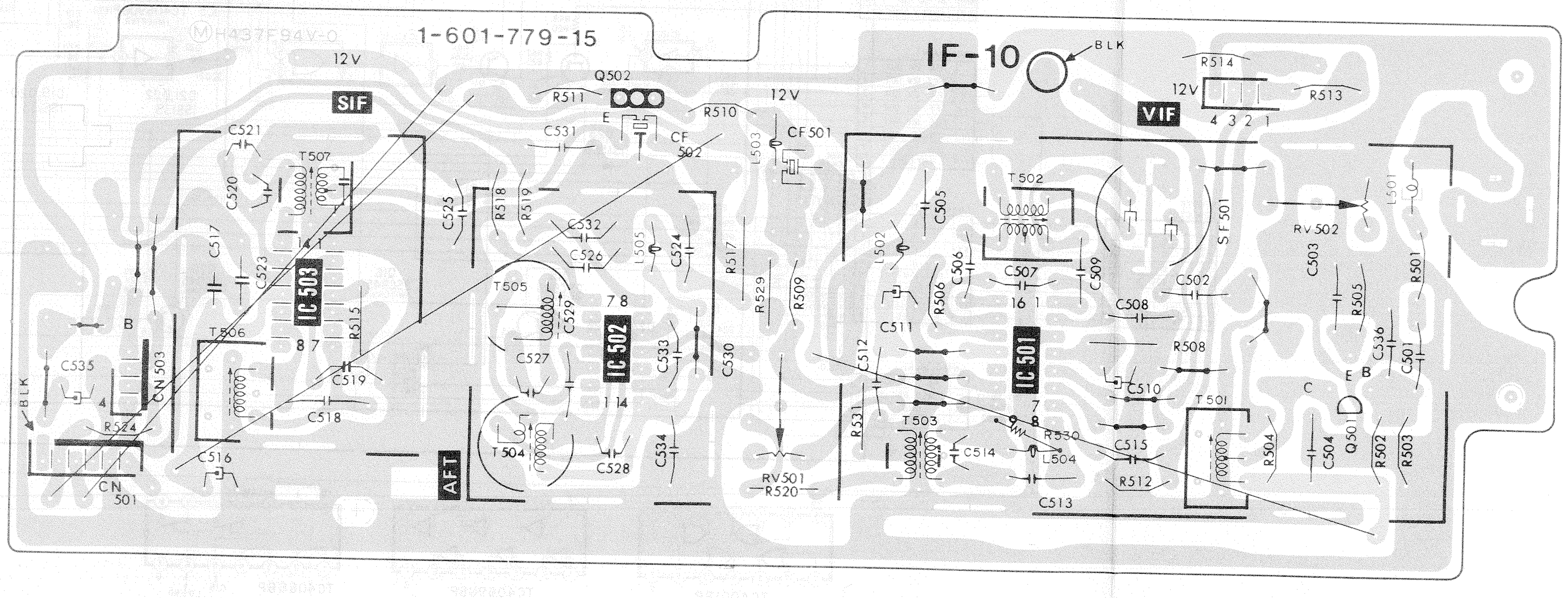
TU-26 BOARD

	E	F	G	H	I	
Q	104		101		102 103	Q
D	104 103			102 101		D
ADJ		RV101				ADJ


C128
C115
C114
L104
R107
C113
B
R105
L103
R109
R104
R108
A
R110
C117
CN102
CN105
C127
B
C102
A
C118
R111
C119
R112
R113
R118
SYNC SEP
R106
C
C116
Q101
E
CN103
12
CN104
1
R115
R114
C120
Q102
E
C129
C125
RV101
C126
D104
Q103
R122
110V ADJ
C107
C106
VIDEO AMP
R101
D101
R116
R117
CN101
C111
R103
C104
C108
L101
L102
C109
C110
Q103
E
9
T101
R121
C122
C123
R120
IF
B
U
H
L
VC
AGC
TU-26
1-605-079-14
(1-593-039-14
B-176
OUT
Q104
E
C124
C121
L105
VIF
JK101
C130
D102
TU101
C
C112
R102
C103
C101
C105
DC-DC CONVERTER
REGU 12V
R119
GND
JAPAN

IF-10 BOARD

	F	G	H	I	
IC-Q	IC503	502 IC502	IC501	501	IC-Q
ADJ		RV501		RV502	ADJ

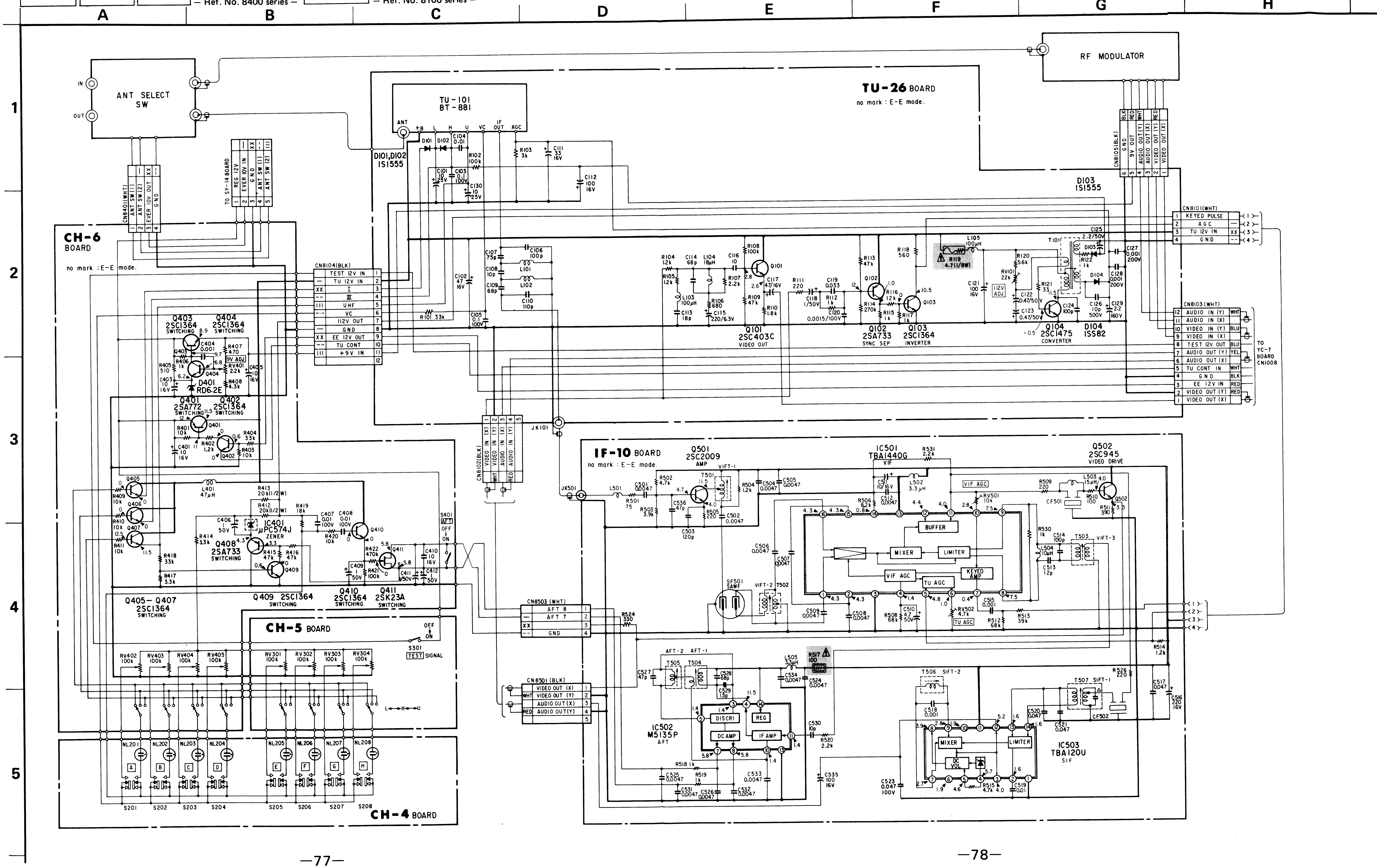

1-601-779-15
12V
Q502
SIF
R511
E
R510
12V
IF-10
BLK
R514
12V
R513
VIF
4 3 2 1
C521
C531
CF 502
L503
CF501
T507
C520
C525
R518
R519
C532
C526
L505
C524
R517
T502
C505
SF501
RV502
L501
C517
C523
14 1
IC503
R515
T505
C529
7 8
IC502
C533
C530
R529
R509
L502
C506
R506
C507
16 1
C509
C508
C502
C503
R505
R501
B
T506
8 7
C527
C511
C512
IC501
R508
C536
C501
E B
BLK
C535
CN503
4
C519
C518
1 14
C510
C
T501
R524
CN 501
C516
T504
C528
C534
AFT
RV501
R520
R531
T503
C514
7
8
R530
L504
C515
R512
C513
R504
C504
Q501
R502
R503

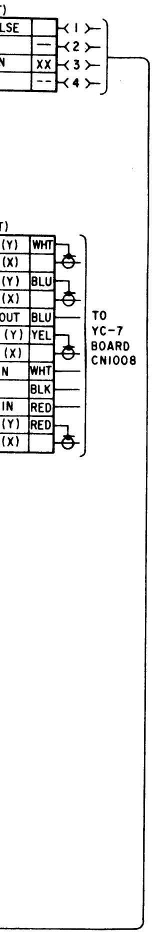
TUNER TUNER

CH-4 **CH-5** **CH-6** (TUNER PRESET) – Ref. No. 8400 series –

TU-26 (V TUNER, U TUNER) – Ref. No. 8100 series –

IF-10 (VIF, SIF & AFT) – Ref. No. 9500 series –


A
B
C
D
E
F
G
H
1
2
3
4
5
ANT SELECT SW
IN
OUT
CN8401(WHT)
ANT SW(1)
ANT SW(2)
EVER 10V OUT
GND
TO SY-14 BOARD
REG 12V
EVER 10V IN
GND
ANT SW (1)
ANT SW (2)
TU-101 BT-881
ANT
D101,D102 1S1555
RF MODULATOR
TU-26 BOARD
no mark : E-E mode.
CH-6 BOARD
no mark : E-E mode.
CN8104(BLK)
TEST 12V IN
TU 12V IN
UHF
VC
112V OUT
GND
EE 12V OUT
TU CONT
+9V IN
Q403 2SC1364 SWITCHING
Q404 2SC1364 SWITCHING
D401 RD6.2E
Q401 2SA772 SWITCHING
Q402 2SC1364 SWITCHING
Q405–Q407 2SC1364 SWITCHING
IC401 μPC574J ZENER
Q408 2SA733 SWITCHING
Q409 2SC1364 SWITCHING
Q410 2SC1364 SWITCHING
Q411 2SK23A SWITCHING
S401 AFT OFF ON
CH-5 BOARD
S301 TEST SIGNAL
CH-4 BOARD
L–H–U
Q101 2SC403C VIDEO OUT
Q102 2SA733 SYNC SEP
Q103 2SC1364 INVERTER
Q104 2SC1475 CONVERTER
D104 1SS82
D103 1S1555
R119 4.7(1/8W)
CN8105(BLK)
GND
9V OUT
AUDIO OUT (Y)
AUDIO OUT (X)
VIDEO OUT (Y)
VIDEO OUT (X)
CN8101(WHT)
KEYED PULSE
AGC
TU 12V IN
GND
CN8103(WHT)
AUDIO IN (Y)
AUDIO IN (X)
VIDEO IN (Y)
VIDEO IN (X)
TEST 12V OUT
AUDIO OUT (Y)
AUDIO OUT (X)
TU CONT IN
GND
EE 12V IN
VIDEO OUT (Y)
VIDEO OUT (X)
TO YC-7 BOARD CN1008
CN8102(BLK)
VIDEO IN (X)
VIDEO IN (Y)
AUDIO IN (X)
AUDIO IN (Y)
JK101
JK501
IF-10 BOARD
no mark : E-E mode.
Q501 2SC2009 AMP
IC501 TBA1440G VIF
Q502 2SC945 VIDEO DRIVE
BUFFER
MIXER
LIMITER
VIF AGC
TU AGC
KEYED AMP
SF501 SAWF
CN8503(WHT)
AFT 8
AFT 7
GND
CN8501(BLK)
VIDEO OUT (X)
VIDEO OUT (Y)
AUDIO OUT (X)
AUDIO OUT (Y)
IC502 M5135P AFT
DISCRI
REG
DC AMP
IF AMP
R517 100
IC503 TBA120U SIF
DC VOL
T506 SIFT-2
T507 SIFT-1


LSE
N
XX
--
1
2
3
4
(Y)
(X)
(Y)
(X)
OUT
(Y)
(X)
N
IN
(Y)
(X)
WHT
BLU
BLU
YEL
WHT
BLK
RED
RED
TO
YC-7
BOARD
CN1008

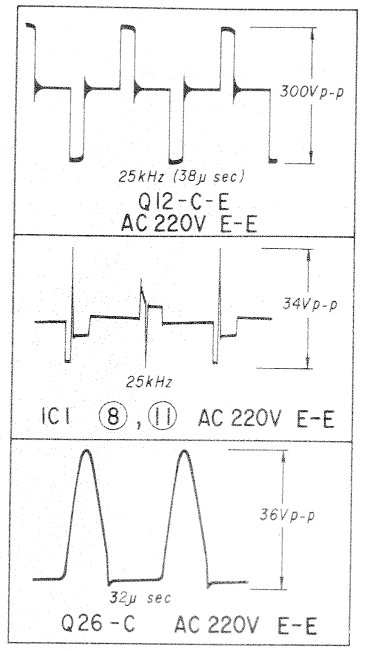
NOTES:

- All resistors are in ohms, ¼ W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000kΩ
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- -[WW]- : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20kΩ/V).

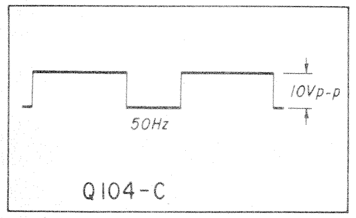
The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

SR-09 (SWITCHING REGULATOR) — Ref. No. 9000 series — **FS-8** (FUSE) — Ref. No. 0001 series — **TM-13** **TM-14** **TM-15** (PROGRAM TIMER CIRCUIT) — Ref. No. 7000 series — **LF-14** (LINE FILTER) — Ref. No. 0001 series —

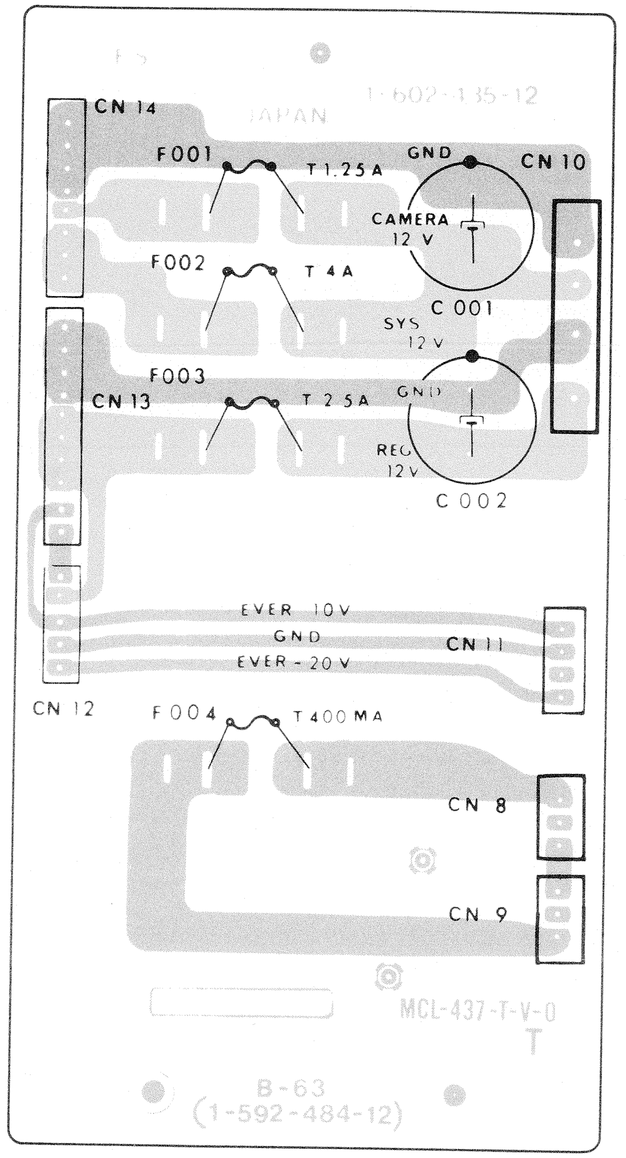
SR-09 BOARD



TM-14 BOARD

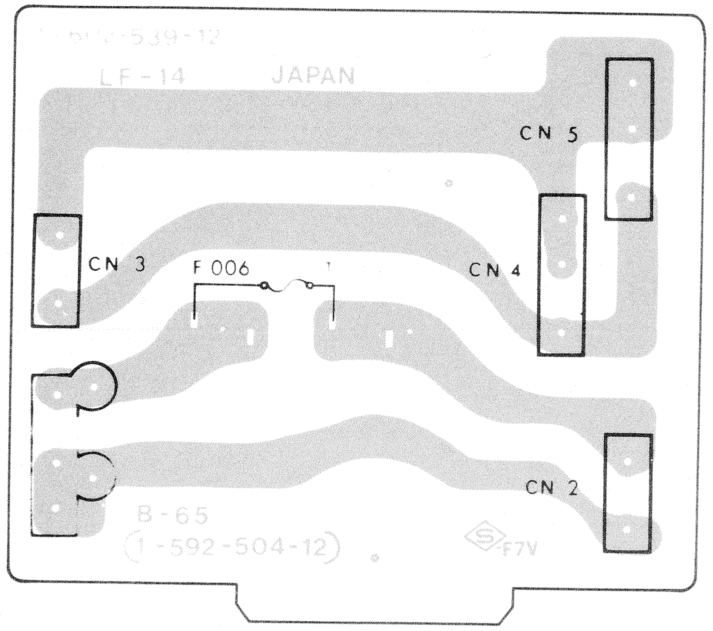


FS-8 BOARD

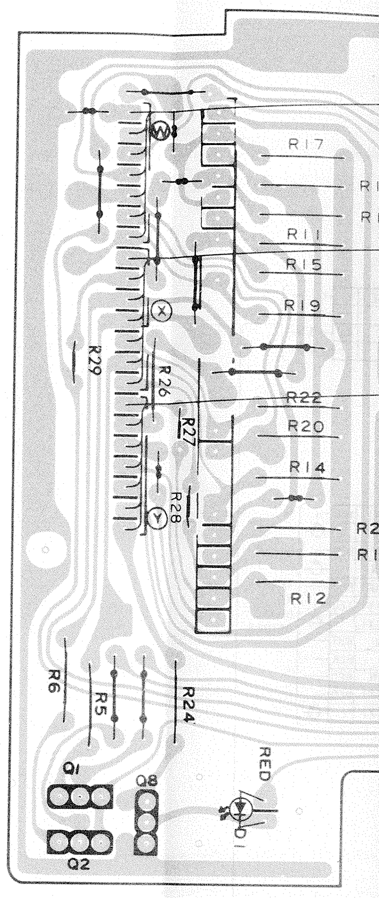

1-602-135-12
JAPAN
CN 14
F001
T 1.25 A
GND
CN 10
CAMERA 12 V
F002
T 4 A
C 001
SYS 12 V
F003
CN 13
T 2.5 A
GND
REG 12 V
C 002
EVER 10 V
GND
EVER -20 V
CN 11
CN 12
F004
T 400 MA
CN 8
CN 9
MCL-437-T-V-0
B-63
(1-592-484-12)

▨ : B+ Pattern

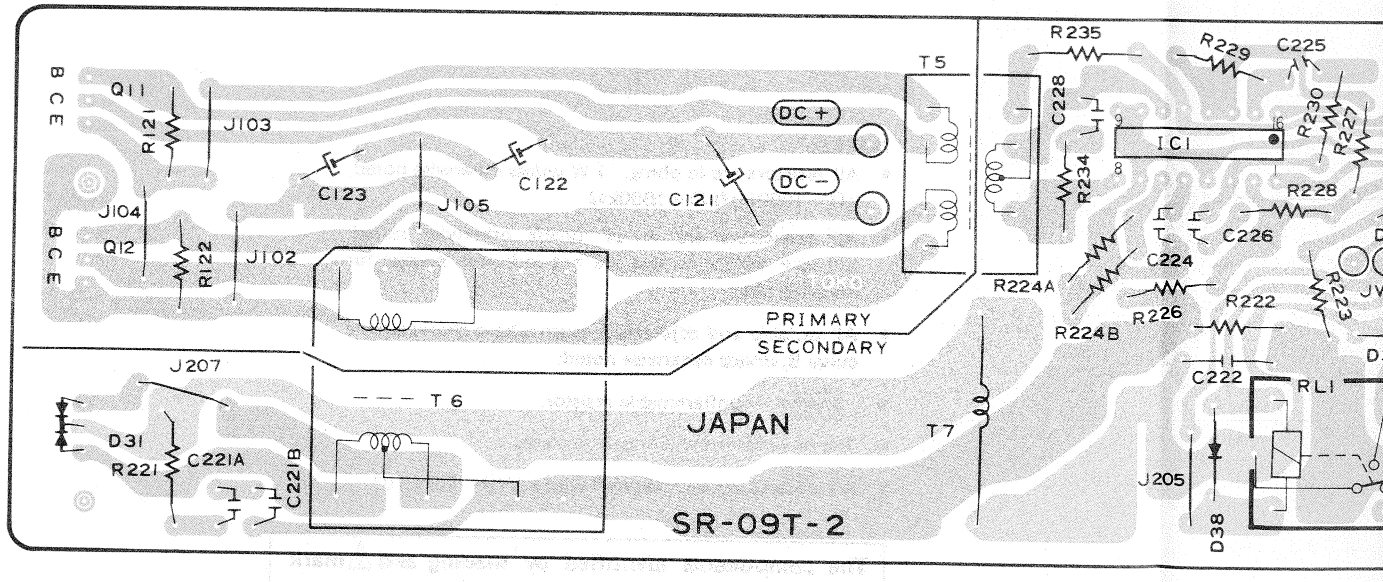
LF-14 BOARD


LF-14
JAPAN
CN 5
CN 3
F 006
CN 4
CN 2
B-65
(1-592-504-12)
F7V

TM-15 BOARD

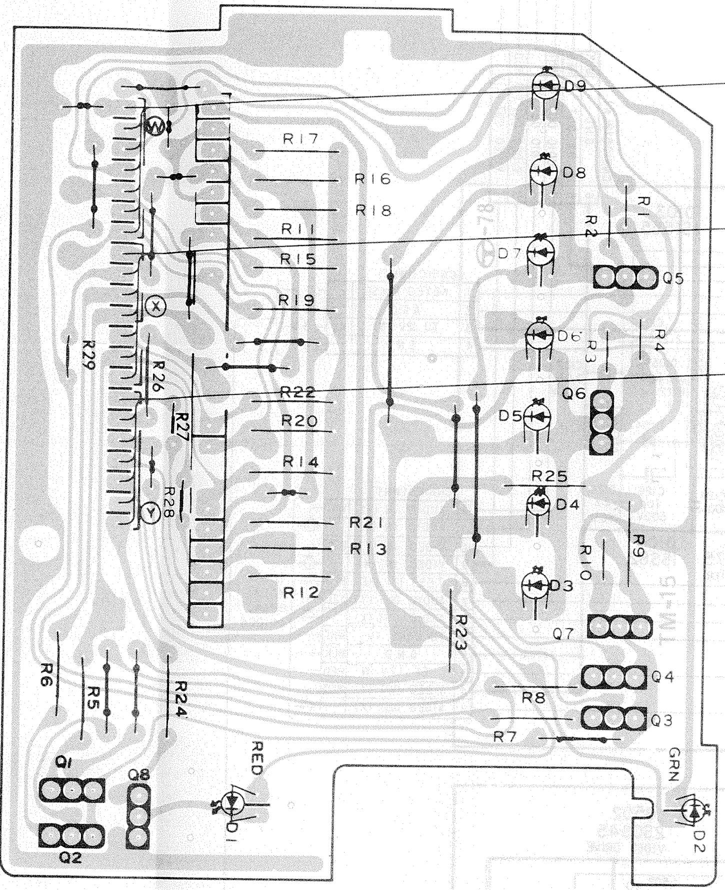

R17
R11
R15
R19
R29
R26
R27
R28
R22
R20
R14
R12
R6
R5
R24
RED
Q1
Q8
Q2
D1

SR-09-2BOARD

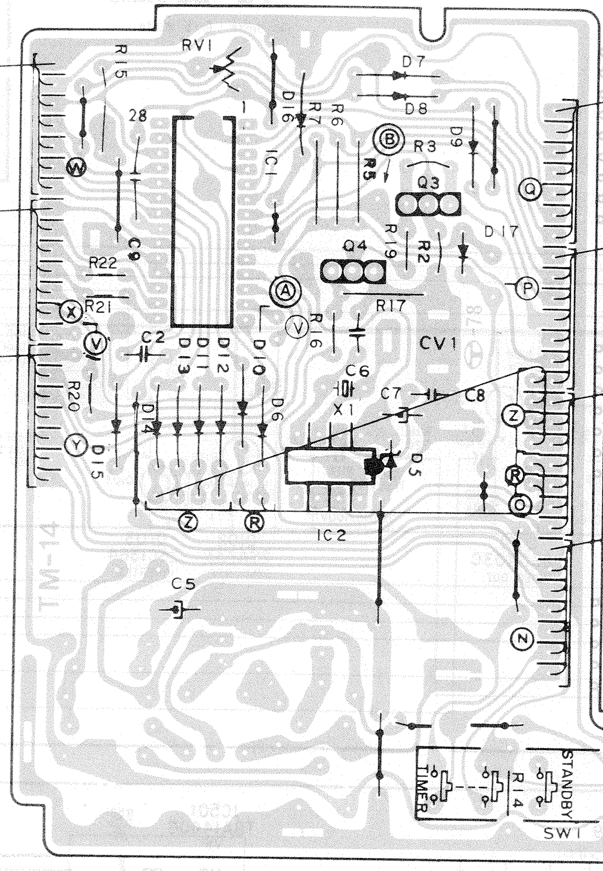

B C E
Q11
R121
J103
C123
J105
C122
C121
DC +
DC −
T5
J104
B C E
Q12
R122
J102
TOKO
PRIMARY
SECONDARY
J207
T 6
JAPAN
T7
D31
R221
C221A
C221B
SR-09T-2
R235
R229
C225
C228
IC1
R230
R227
R234
R228
C226
C224
R224A
R224B
R226
R222
R223
C222
RL1
J205
D38

H I J K L M N O

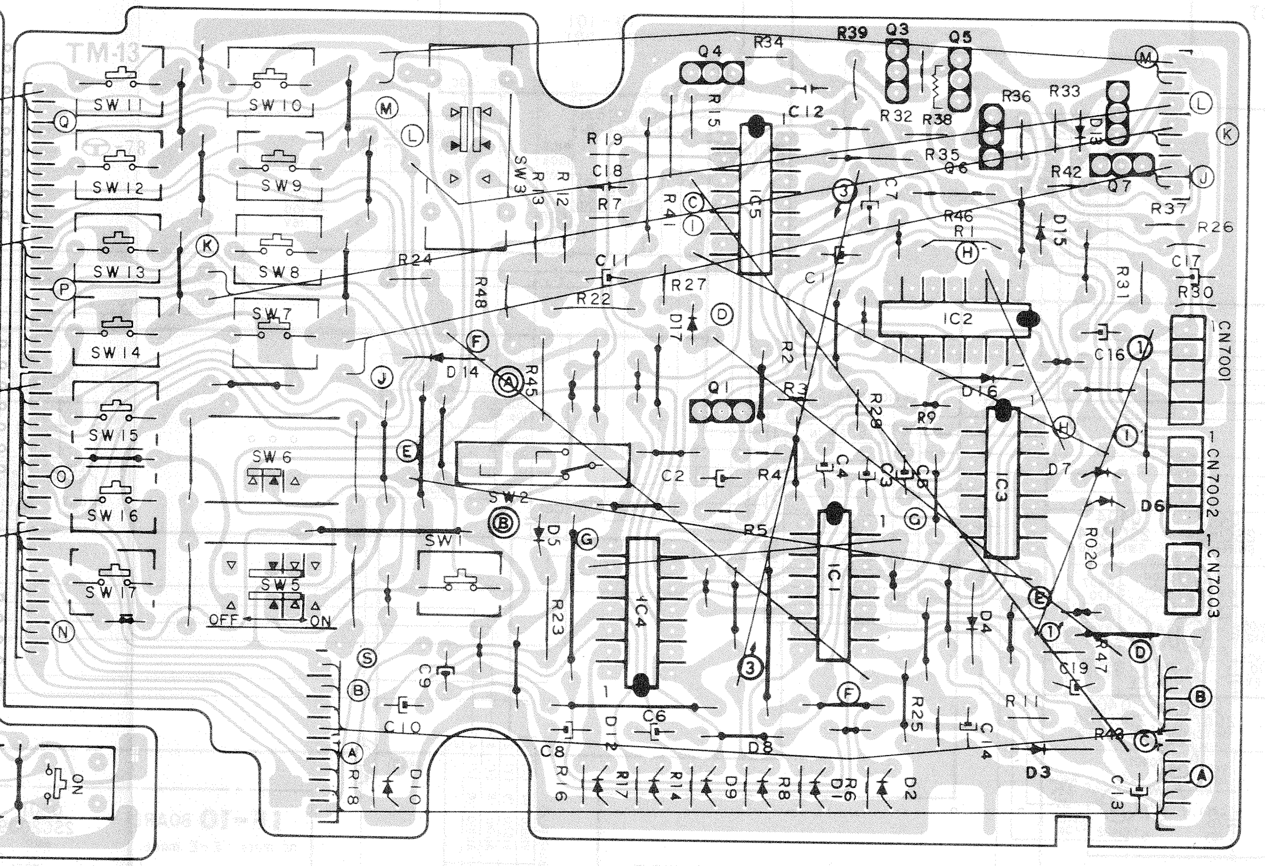
TM-15 BOARD

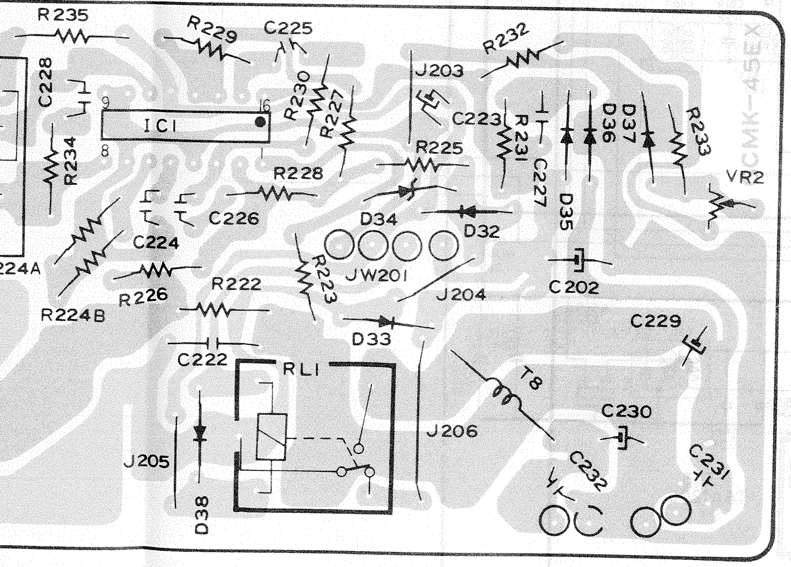

R17
R16
R18
R11
R15
R19
R22
R20
R14
R21
R13
R12
R29
R26
R27
R28
R23
R6
R5
R24
R8
R7
R1
R2
R3
R4
R9
R10
R25
D9
D8
D7
D6
D5
D4
D3
Q5
Q6
Q7
Q4
Q3
Q1
Q8
Q2
RED
GRN
D2
W
X
V
Y
TM-15

TM-14 BOARD

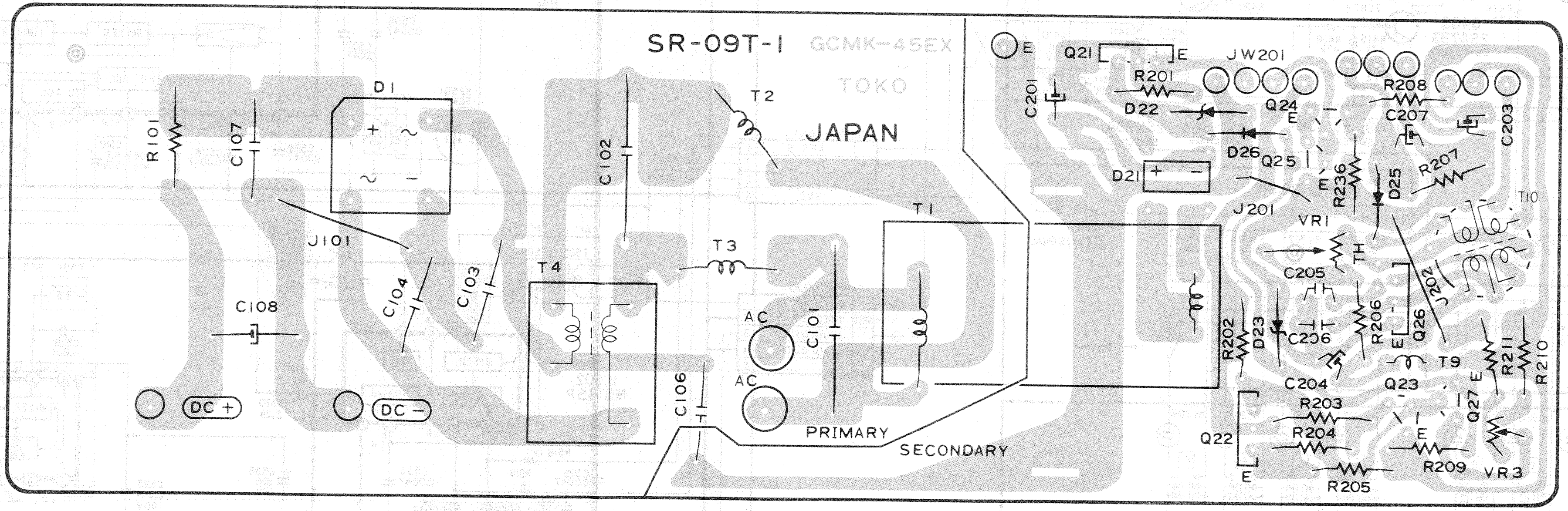

R15
RV1
28
IC1
D16
R7
R6
R5
R3
R19
R2
Q3
Q4
D7
D8
D9
D17
R22
R21
C9
C2
D13
D12
D11
D10
R16
R17
C6
X1
C7
C8
CV1
R20
D14
D15
D6
D5
IC2
C5
TIMER
R14
STANDBY
ON
SW1
TM-14
W
X
V
Y
Z
R
O
N
P
Q
A
B

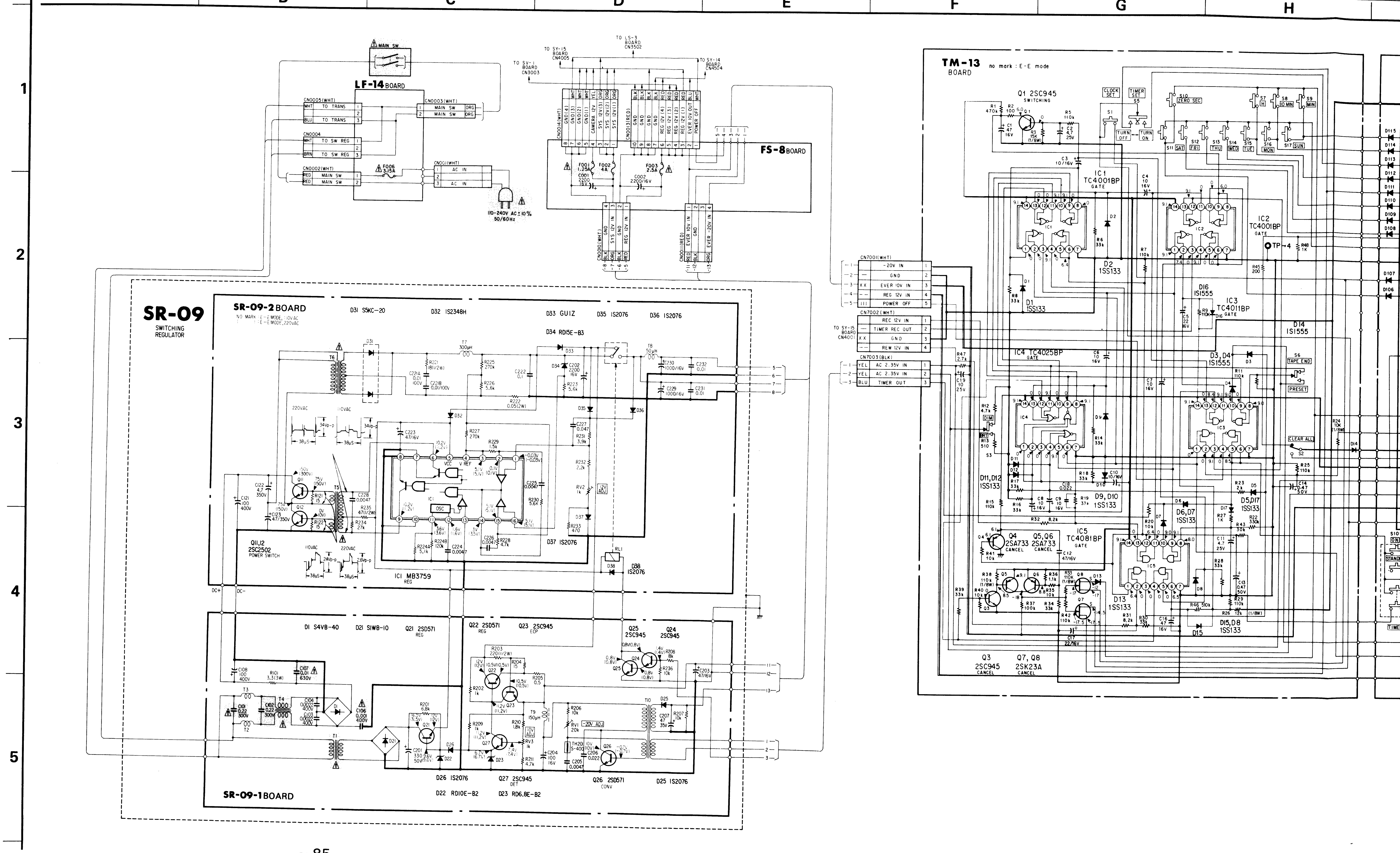
TM-13 BOARD


TM-13
SW11
SW10
SW12
SW9
SW13
SW8
SW14
SW7
SW15
SW6
SW16
SW17
SW5
SW2
SW1
SW3
OFF
ON
Q4
R34
R39
Q3
Q5
R36
R33
R15
C12
R32
R38
R19
C18
R7
R12
R13
R35
Q6
R42
Q7
R37
R26
R41
IC5
R46
R1
D15
C17
R30
R31
R24
R48
C11
R27
R22
D17
IC2
C16
CN7001
R45
D14
Q1
R2
R3
R28
R9
D16
IC3
CN7002
C2
R4
C4
C3
D7
D6
R5
IC1
R020
CN7003
D5
R23
IC4
D4
R47
C19
C9
C6
R25
R11
C10
C14
R40
C8
D12
D8
D3
C13
R18
D10
R16
R17
R14
D9
R8
R6
D1
D2
A B C D E F G H I J K L M N O P Q S

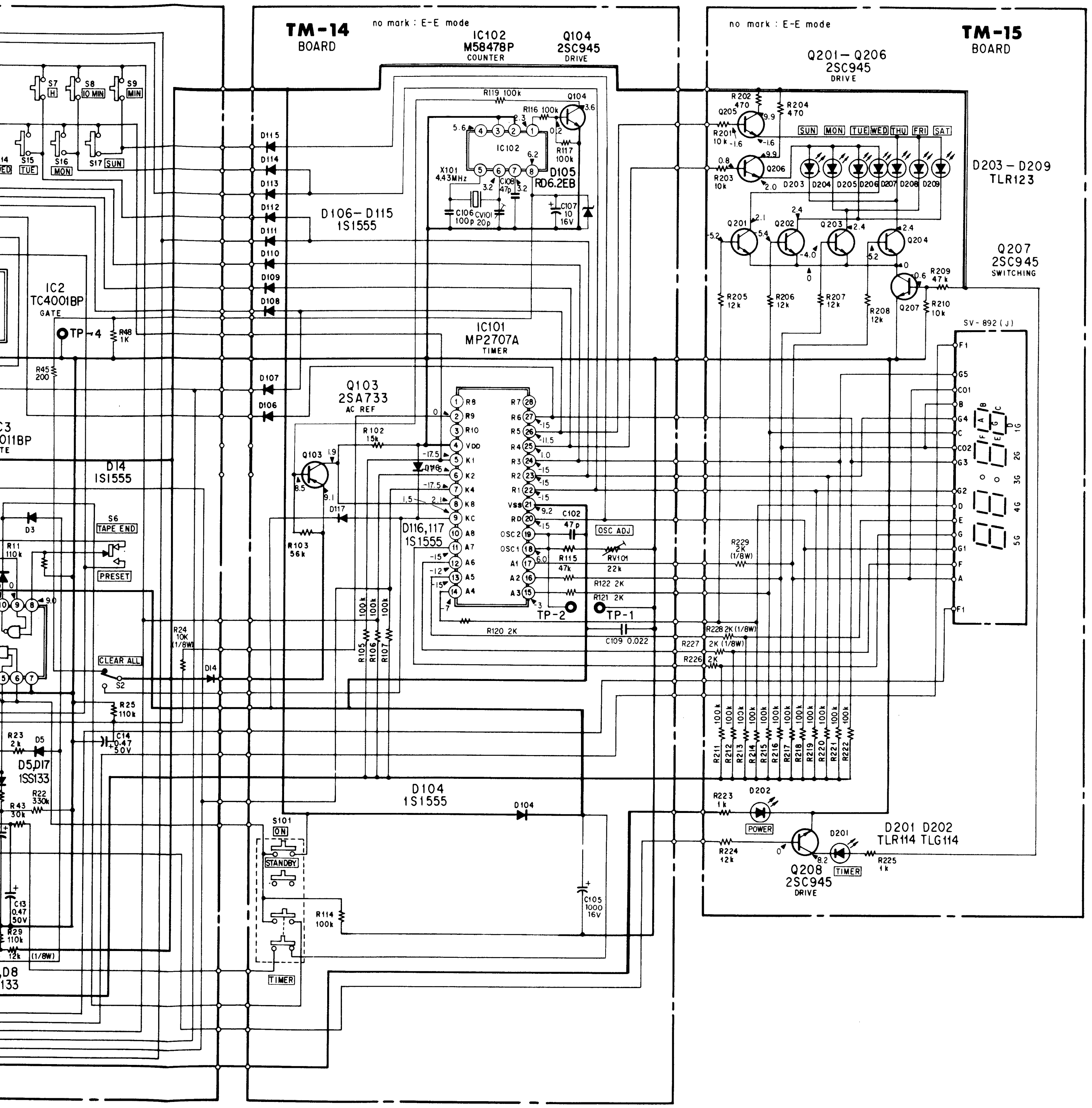

R235
R229
C225
R232
C228
J203
R230
R227
C223
R231
D36
D37
R233
IC1
R234
R225
C227
VR2
R228
C226
D34
D32
D35
C224
R223
JW201
J204
C202
R224A
R226
R222
R224B
D33
C229
C222
RL1
T8
C230
J206
J205
C232
C231
D38
GCMK-45EX

SR-09-1BOARD


SR-09T-1
GCMK-45EX
TOKO
JAPAN
T2
E
Q21
E
JW201
R201
D22
Q24
R208
C207
C203
C201
D1
R101
C107
C102
D26
Q25
D21
R236
D25
R207
T10
J201
VR1
TH
J101
T1
T3
C205
C104
C103
T4
C108
C101
AC
AC
R202
D23
C206
R206
Q26
J202
R211
R210
T9
C204
Q23
Q27
R203
R204
Q22
R205
R209
VR3
C106
DC +
DC −
PRIMARY
SECONDARY


A
B
C
D
E
F
G
H
1
2
3
4
5
MAIN SW
LF-14 BOARD
CN0005(WHT)
TO TRANS
CN0004
TO SW REG
CN0002(WHT)
MAIN SW
F006 3.15A
CN0003(WHT)
CN0011(WHT)
AC IN
110-240V AC ±10% 50/60Hz
TO SY-1 BOARD CN3003
TO SY-15 BOARD CN4005
TO LS-3 BOARD CN3502
TO SY-14 BOARD CN4504
FS-8 BOARD
F001 1.25A
F002 4A
F003 2.5A
C001 2200 16V
C002 2200/16V
CN0010(WHT)
CN0011(RED)
SR-09
SWITCHING REGULATOR
SR-09-2 BOARD
D31 S5KC-20
D32 1S2348H
D33 GU1Z
D34 RD15E-B3
D35 1S2076
D36 1S2076
D37 1S2076
D38 1S2076
Q11,12 2SC2502 POWER SWITCH
IC1 MB3759 REG
SR-09-1 BOARD
D1 S4VB-40
D21 S1WB-10
Q21 2SD571 REG
Q22 2SD571 REG
Q23 2SC945 ECP
Q24 2SC945
Q25 2SC945
Q26 2SD571 CONV
Q27 2SC945 DET
D22 RD10E-B2
D23 RD6.8E-B2
D25 1S2076
D26 1S2076
TM-13 BOARD
no mark : E-E mode
Q1 2SC945 SWITCHING
IC1 TC4001BP GATE
IC2 TC4001BP GATE
IC3 TC4011BP GATE
IC4 TC4025BP GATE
IC5 TC4081BP GATE
D1 1SS133
D2 1SS133
D14 1S1555
D16 1S1555
D3, D4 1S1555
D11,D12 1SS133
D9, D10 1SS133
D6,D7 1SS133
D5,D17 1SS133
D13 1SS133
D15,D8 1SS133
Q4 2SA733 CANCEL
Q5,Q6 2SA733 CANCEL
Q3 2SC945 CANCEL
Q7, Q8 2SK23A CANCEL
CN7001(WHT)
-20V IN
GND
EVER 10V IN
REG 12V IN
POWER OFF
CN7002(WHT)
REC 12V IN
TIMER REC OUT
REW 12V IN
TO SY-15 BOARD CN4001
CN7003(BLK)
AC 2.35V IN
TIMER OUT
CLOCK SET
TIMER SET
TURN OFF
TURN ON
S10 ZERO SEC
S8 10 MIN
S9 MIN
S11 SAT
S12 FRI
S13 THU
S14 WED
S15 TUE
S16 MON
S17 SUN
S6 TAPE END
PRESET
CLEAR ALL
DIM
BRT
TP-4

LF-14 (LINE FILTER)
– Ref. No. 0001 series –


TM-14
BOARD
no mark : E-E mode
IC102
M58478P
COUNTER
Q104
2SC945
DRIVE
D106 – D115
1S1555
IC2
TC4001BP
GATE
TP-4
IC101
MP2707A
TIMER
Q103
2SA733
AC REF
D14
1S1555
D116,117
1S1555
X101
4.43MHz
D105
RD6.2EB
OSC ADJ
RV101
TP-2
TP-1
D104
1S1555
D5,D17
1SS133
S101
ON
STANDBY
TIMER
C105
1000
16V
TAPE END
PRESET
CLEAR ALL
TM-15
BOARD
no mark : E-E mode
Q201 – Q206
2SC945
DRIVE
SUN MON TUE WED THU FRI SAT
D203 – D209
TLR123
Q207
2SC945
SWITCHING
SV-892 (J)
D201 D202
TLR114 TLG114
POWER
TIMER
Q208
2SC945
DRIVE

NOTES:

- All resistors are in ohms, ¼ W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000kΩ
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊣WW⊢ : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20kΩ/V).

The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

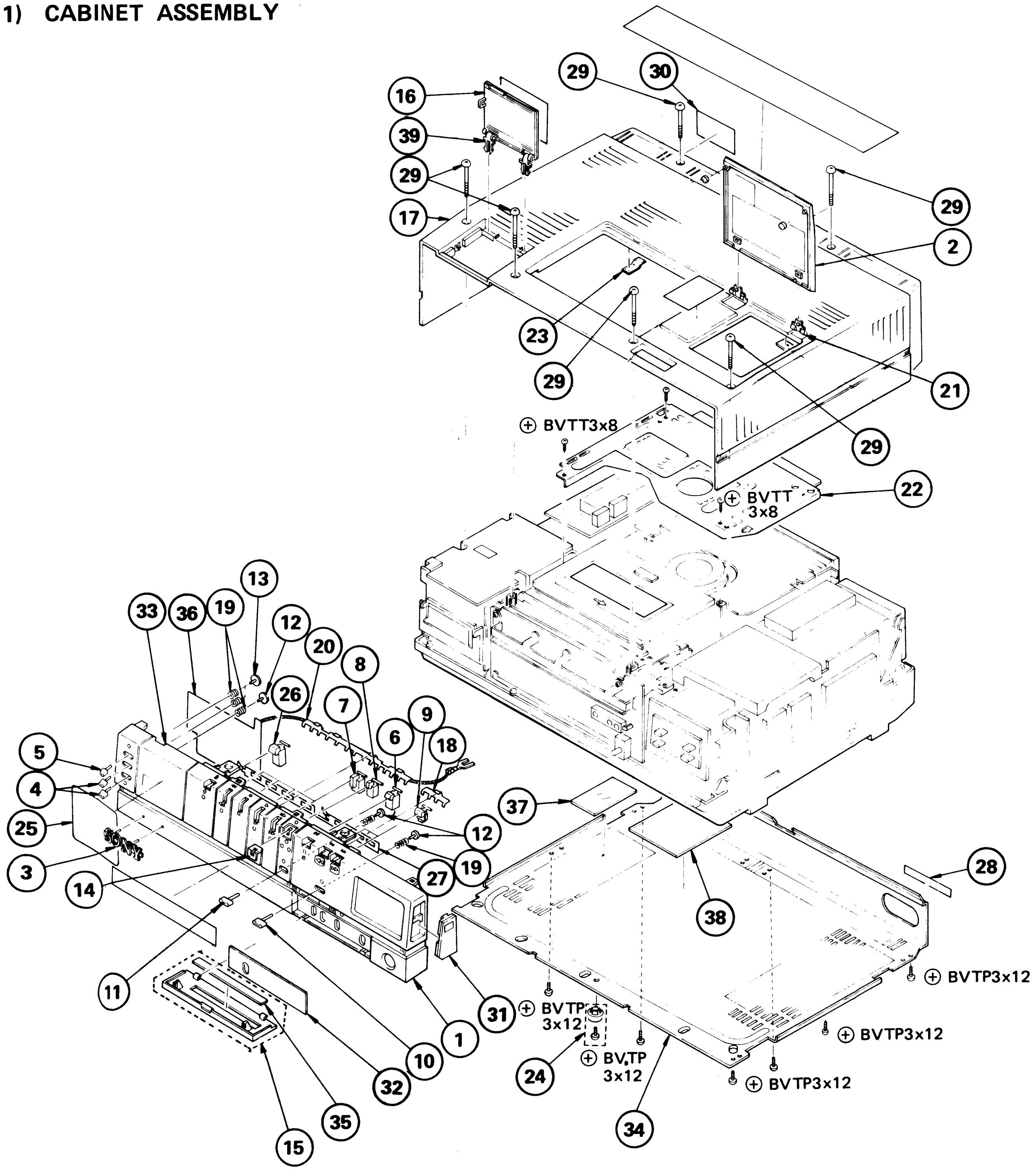
SECTION 4
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " 🌢 " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

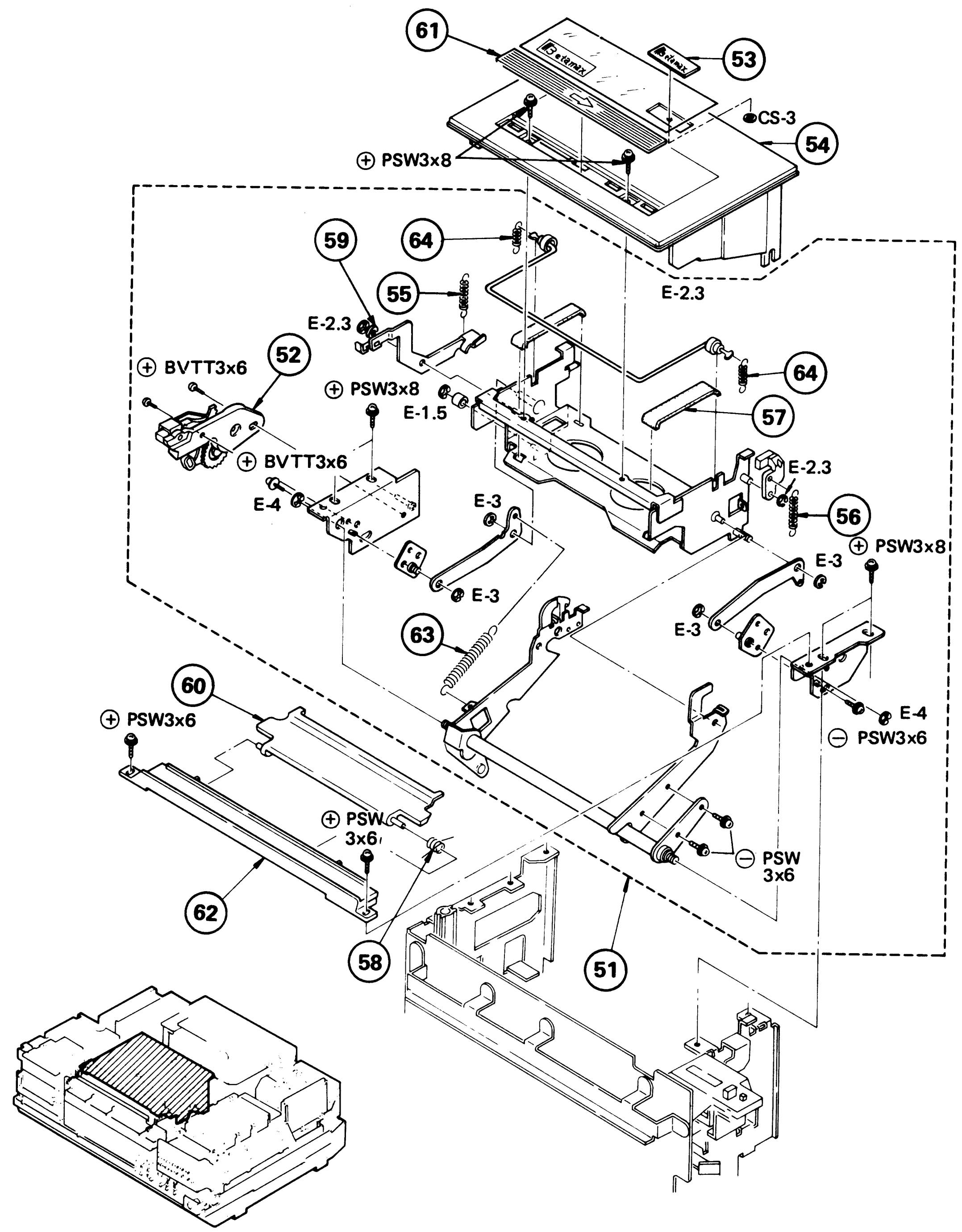
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(1) CABINET ASSEMBLY



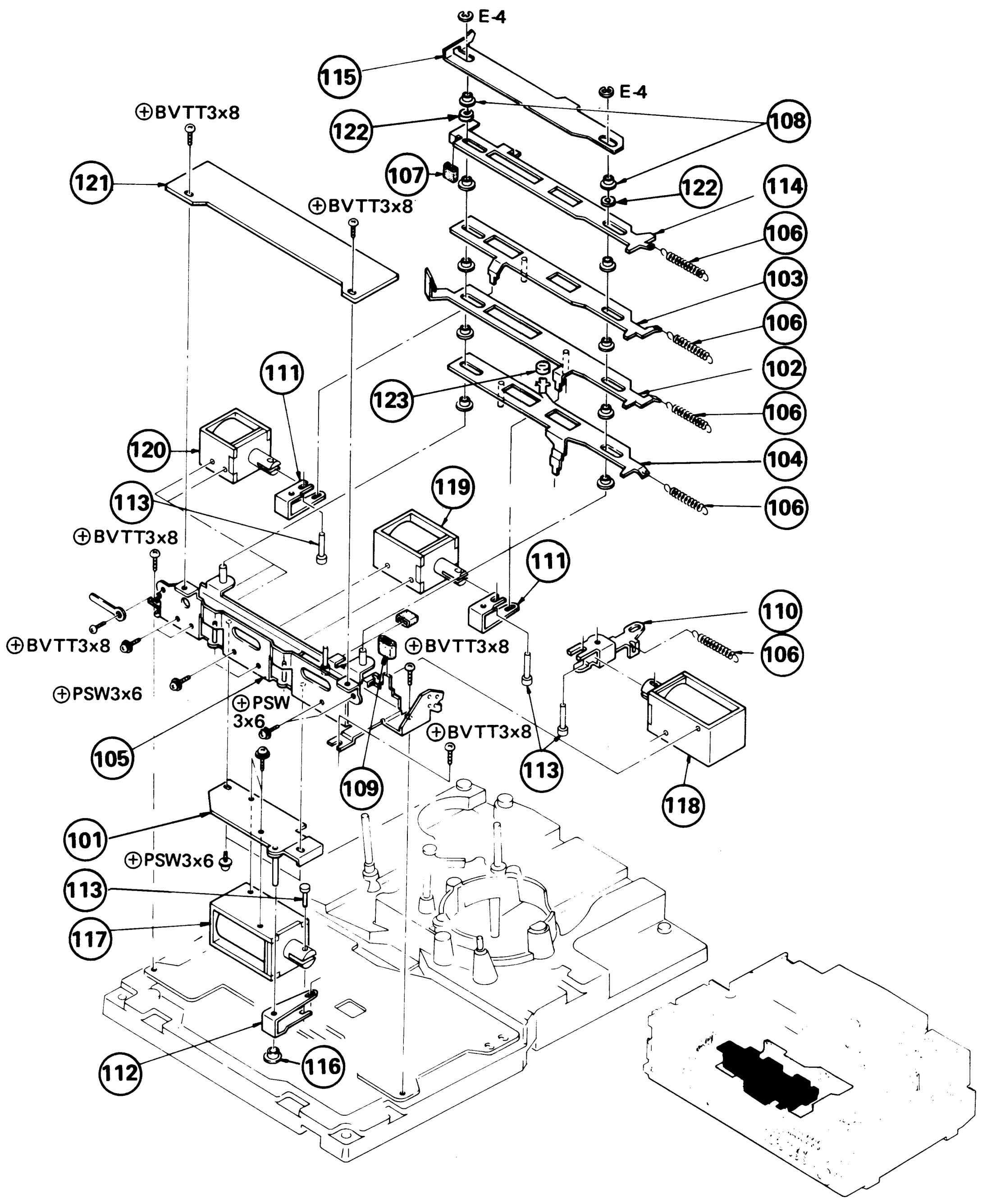
No.	Part No.	Description	Remark
1	X-3663-209-0	PANEL ASSEMBLY, front—	3–14, 18–20, 25–27, 32, 33, 36
2	X-3663-203-0	DOOR ASS'Y, preset	
3	3-548-973-00	EMBLEM, SONY	
4	3-659-535-01	SWITCH, P	
5	3-659-535-11	SWITCH, P	
6	3-659-536-00	BUTTON(1), F	
7	3-659-537-00	BUTTON (2), F	
8	3-659-538-00	BUTTON (3), F	
9	3-659-539-00	BUTTON (4), F	
10	3-659-540-00	SWITCH (1), S.F	
11	3-659-541-00	SWITCH (2), S.F	
12	3-659-542-00	RETAINER, spring	
13	3-659-542-11	RETAINER, spring	
14	3-659-543-03	PLATE, ornamental; REC button	
15	X-3663-224-0	DOOR (M) ASS'Y, FRONT	35
16	3-659-590-00	LID, timer	
17	X-3663-249-0	CASE ASS'Y, UPPER	2, 16, 21, 23, 39
18	3-659-607-00	RETAINER (2), button	
19	3-659-609-00	SPRING, compression	
20	3-659-616-00	RETAINER (1), button	
21	3-659-618-00	HINGE, spring	
22	🌢3-659-671-00	COVER, shield	
23	3-659-748-00	CLOTH, masking; upper case	
24	3-659-768-00	FOOT	
25	3-660-901-00	COVER, front; timer	
26	3-660-918-00	BUTTON (5), F	
27	3-660-959-00	SPRING, LEAF	
28	3-662-260-00	LABEL, input/output	
29	3-662-325-00	SCREW, tap	
30	🌢3-672-041-00	LABEL, model number	
31	3-663-208-00	FRONT (RIGHT)	
32	🌢3-663-216-00	LABEL, pause	
33	3-663-221-00	WINDOW, timer	
34	3-663-229-00	PLATE, bottom (M)	
35	3-663-232-00	LABEL, front door	
36	🌢3-663-242-00	INSULATOR, front ground	
37	🌢3-663-244-00	INSULATOR (A) BOTTOM PLATE	
38	🌢3-663-245-00	INSULATOR (B) BOTTOM PLATE	
39	3-703-035-11	SHAFT, LID	

(2) CASSETTE LIFT ASSEMBLY


61
53
CS-3
54
⊕ PSW3x8
59
64
55
E-2.3
E-2.3
⊕ BVTT3x6
52
⊕ PSW3x8
E-1.5
64
57
⊕ BVTT3x6
E-4
E-2.3
E-3
56
⊕ PSW3x8
E-3
E-3
E-3
63
60
⊕ PSW3x6
E-4
⊖ PSW3x6
⊕ PSW 3x6
⊖ PSW 3x6
62
58
51

No.	Part No.	Description	Remark
51	A-6751-061-A	CASSETTE-UP BLOCK ASS'Y	52, 55–57, 59, 63, 64
52	A-6751-079-A	DAMPER ASS'Y, ROTARY	
53	3-703-471-01	EMBLEM, BETA	
54	X-3663-248-0	LID ASS'Y, cassette-up	53,
55	3-642-490-00	SPRING, tension	
56	3-642-490-00	SPRING, tension	
57	3-659-498-00	CUSHION, cassette holder	
58	3-659-531-00	SPRING	
59	3-701-439-01	WASHER	
60	3-659-583-00	PLATE, blind cassette	
61	3-659-585-00	STRIP, ornamental cassette	
62	3-659-598-71	GUIDE, cassette	
63	3-660-995-00	SPRING, tension	
64	3-659-636-00	SPRING, tension	

(3) FUNCTION ASSEMBLY


E-4
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121
107
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⊕BVTT3x8
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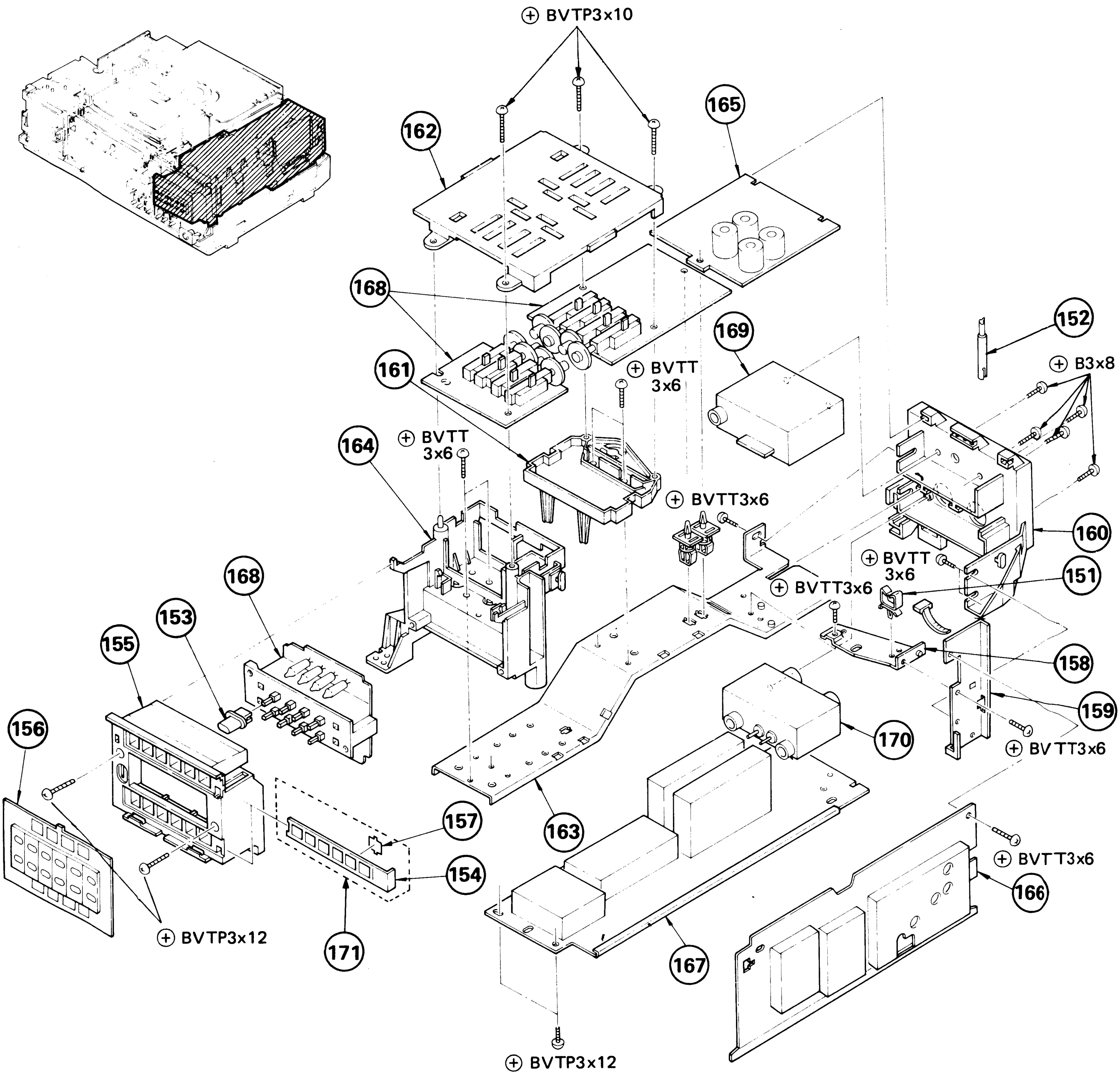
111
102
123
106
120
104
119
106
113
⊕BVTT3x8
111
110
⊕BVTT3x8
⊕BVTT3x8
106
⊕PSW3x6
⊕PSW 3x6
⊕BVTT3x8
105
113
109
118
101
⊕PSW3x6
113
117
112
116

No.	Part No.	Description	Remark
101	● X-3659-329-0	BASE ASS'Y, E solenoid	
102	● X-3659-341-0	PLATE ASS'Y, slide; F	
103	● X-3659-342-0	PLATE ASS'Y, slide; R	
104	● X-3659-343-0	PLATE ASS'Y, slide; E	
105	● X-3659-353-0	FRAME ASS'Y, F solenoid	
106	3-536-006-XX	SPRING, tension	
107	● 3-537-790-21	SUPPORT, tension; arm	
108	3-646-271-00	BOSS	
109	3-655-856-11	RETAINER, tension regulator	
110	● 3-659-478-00	LEVER, F	
111	● 3-659-479-00	LEVER, FR	
112	● 3-659-480-00	LEVER, E	
113	3-659-481-00	PIN, solenoid	
114	● 3-659-569-00	PLATE, slide; B	
115	● 3-659-790-00	PLATE, slide; FB	
116	3-703-074-00	CAP 3, shaft	
117	1-454-213-12	SOLENOID, PLUNGER	
118	1-454-214-00	SOLENOID, PLUNGER	
119	1-454-215-00	SOLENOID, PLUNGER	
120	1-454-216-00	SOLENOID, PLUNGER	
121	● 1-601-821-00	PL-2 BOARD	
122	3-701-443-11	WASHER	
123	3-538-051-00	RUBBER, BRAKE	

(4) TUNER CHASSIS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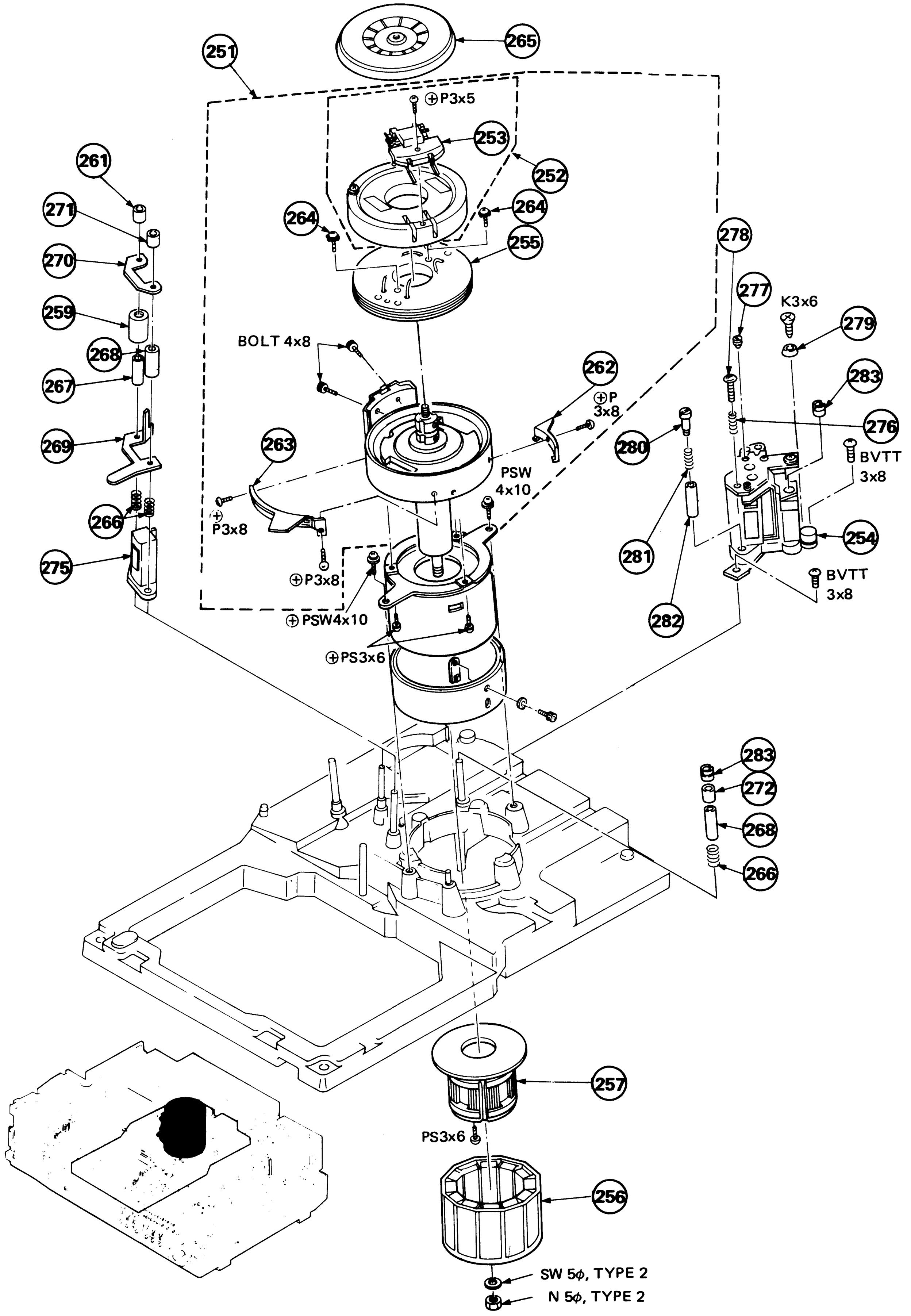
162
165
168
161
⊕ BVTT 3x6
169
152
⊕ B3x8
164
⊕ BVTT 3x6
⊕ BVTT3x6
160
⊕ BVTT 3x6
151
⊕ BVTT3x6
168
153
155
158
159
156
170
⊕ BVTT3x6
157
163
154
⊕ BVTT3x6
166
⊕ BVTP3x12
171
167
⊕ BVTP3x12

No.	Part No.	Description	Remark
151	♠3-655-214-00	CLIP, cable	
152	3-656-301-00	SCREWDRIVER, control	
153	3-659-520-00	KNOB, channel	
154	3-659-580-00	HOLDER, indicator	
155	♠3-659-597-00	COVER, lamp	
156	3-659-733-11	PLATE, ornamental channel	
157	3-659-734-00	INDICATOR, 8 channel	
158	♠3-662-234-00	REINFORCEMENT, IF	
159	♠3-662-242-00	BRACKET, IF	
160	♠3-662-289-00	CHASSIS (B), tuner	

No.	Part No.	Description	Remark
161	♠3-663-210-00	CHASSIS (C), tuner	
162	3-663-218-00	PLATE, ornamental; 8 gang preset	
163	♠3-663-220-00	CHASSIS (D), tuner	
164	♠3-663-226-00	CHASSIS (A), tuner	
165	♠A-6711-225-A	DC-1 BOARD COMPLETE	
166	♠A-6721-038-A	IF-10 BOARD COMPLETE	
167	♠A-6721-088-A	TU-26 BOARD COMPLETE	
168	♠A-6721-047-A	B-56 BOARD COMPLETE	
169	1-464-105-00	MODULATOR, RF	
170	1-553-291-00	SWITCH, ANTENNA CHANGE	
171	A-6707-116-A	HOLDER (C) ASS'Y, INDICATOR	154, 157

(6) DRUM ASSEMBLY


265
251
⊕P3x5
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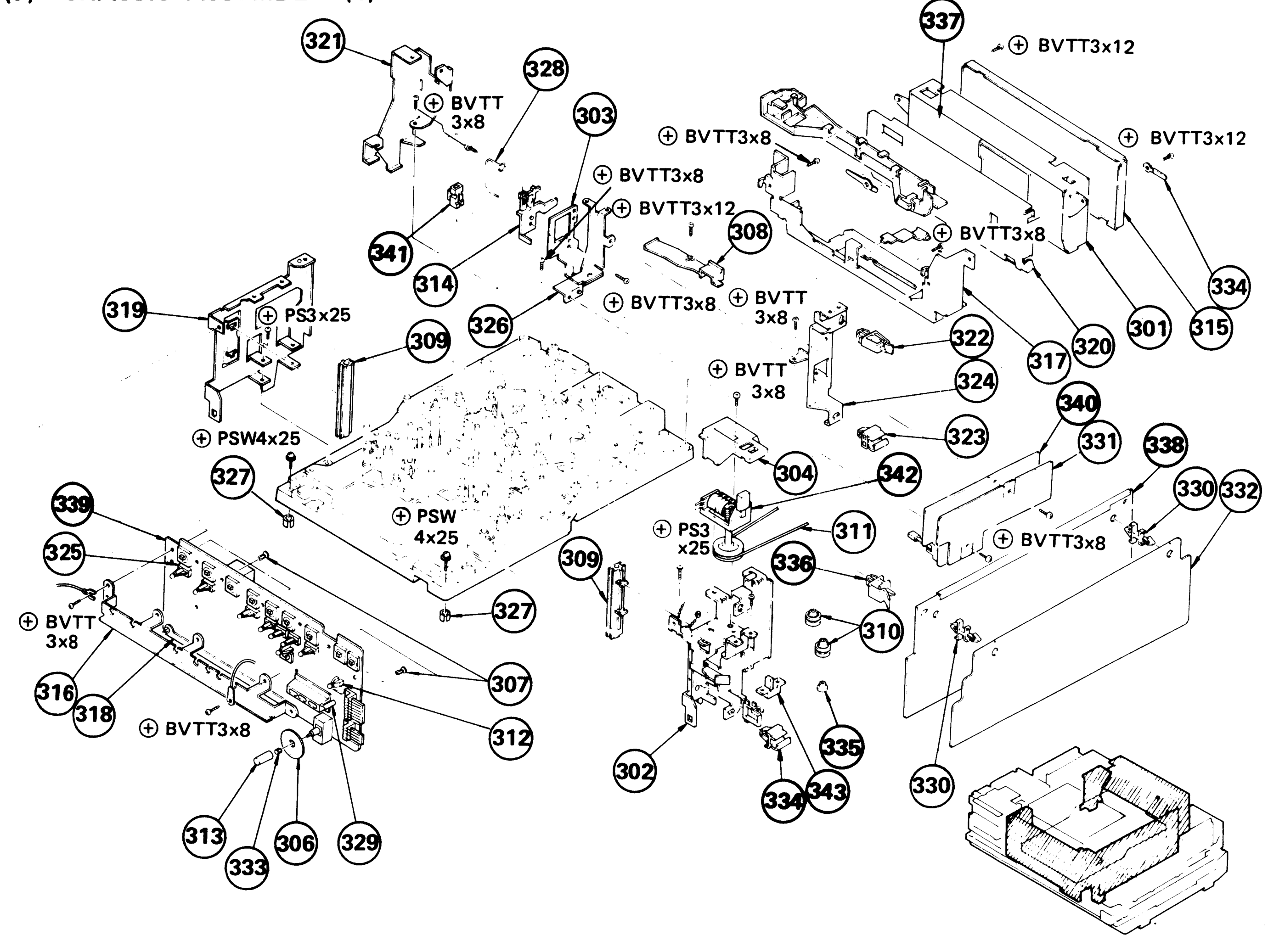
261
271
264
264
255
270
278
259
277
K3x6
279
BOLT 4x8
268
283
267
262
⊕P
3x8
276
269
263
280
BVTT
3x8
PSW
4x10
266
⊕
P3x8
254
281
275
⊕P3x8
BVTT
3x8
⊕PSW4x10
282
⊕PS3x6
283
272
268
266
257
PS3x6
256
SW 5φ, TYPE 2
N 5φ, TYPE 2

No.	*Part No.*	*Description*	*Remark*
251	A-6050-070-A	DRUM ASS'Y (DSH-10A-R)	252, 253, 255, 262, 263, 264,
252	A-6760-050-A	DRUM ASS'Y, upper	253
253	A-6761-013-B	SPRING ASS'Y, tape retainer	
254	A-6761-038-A	A.C.E. ASS'Y	261
255	A-6762-044-A	VIDEO HEAD DISK ASS'Y (DSR-10-R)	
256	X-2619-402-0	ROTOR ASS'Y	
257	X-2619-403-0	STATOR ASS'Y	
259	X-3659-304-0	ROLLER ASS'Y, guide; No. 1	
261	3-645-562-00	NUT	
262	3-652-728-00	BRACKET (B), tape	
263	3-652-741-00	BRACKET (A), tape	
264	3-652-751-00	SCREW (⊕ P EXT tooth WS 3 x8)	
265	3-658-122-00	FAN	

No.	*Part No.*	*Description*	*Remark*
266	3-659-324-00	SPRING, compression	
267	3-659-341-00	SLEEVE, guide; No. 1	
268	3-659-342-00	SLEEVE, guide; No. 2	
269	● 3-659-343-00	BRACKET, tape; entrance	
270	3-659-344-00	PLATE, guide; entrance	
271	3-659-345-00	NUT, guide; No. 1	
272	3-659-716-00	FLANGE, guide	
275	8-825-687-31	HEAD, full erase (EF182-21)	
276	3-645-513-00	SPRING, HEAD DECK ADJUSTMENT	
277	3-659-332-00	SCREW	
278	3-659-333-00	SCREW (3x17), STEP	
279	● 3-659-660-00	BUSHING	
280	3-659-750-00	SPRING, COMPRESSION	
281	3-659-751-00	SCREW, A.C.E ADJUSTMENT	
282	3-659-752-00	NUT, A.C.E ROCK	
283	3-660-997-00	NUT (N), GUIDE ADJUSTMENT	

(7) CHASSIS ASSEMBLY (1)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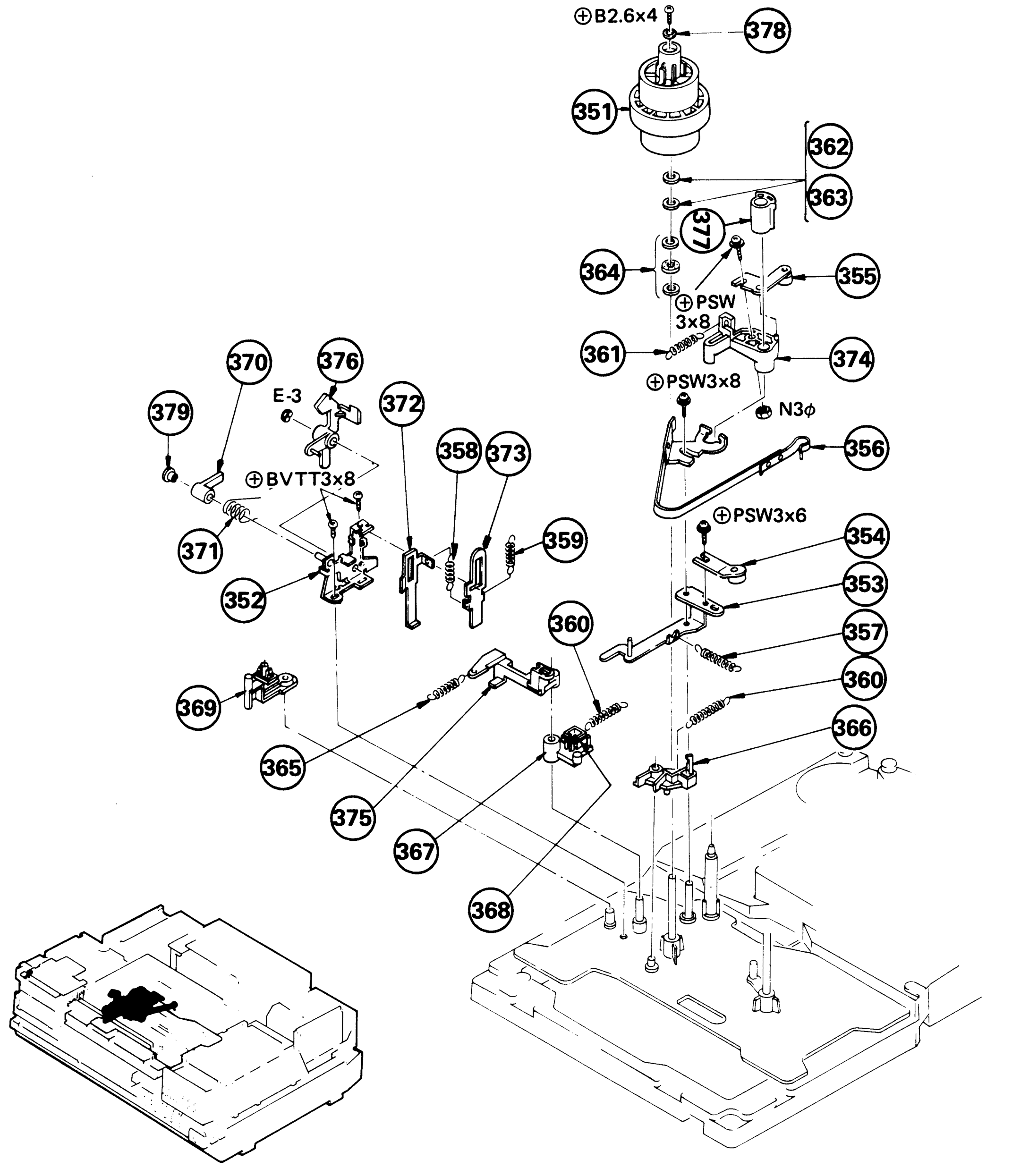
⊕ BVTT3x12
308
⊕ BVTT3x8
341
314
319
⊕ PS3x25
309
326
⊕ BVTT3x8
⊕ BVTT 3x8
322
334
317
320
301
315
⊕ BVTT 3x8
324
323
⊕ PSW4x25
327
340
331
338
330
332
⊕ PSW 4x25
304
342
339
325
⊕ PS3 x25
311
⊕ BVTT3x8
309
336
327
⊕ BVTT 3x8
310
307
316
318
⊕ BVTT3x8
312
302
335
334
343
330
313
333
306
329

No.	Part No.	Description	Remark
301	🌢X-3659-339-0	CASE (A) MAIN ASS'Y, shield	
302	🌢X-3659-352-7	BRACKET (RIGHT) ASS'Y, cassette	
303	🌢X-3659-361-0	OPENER ASS'Y, lid	
304	X-3663-201-0	COVER ASS'Y, counter	
306	3-538-139-00	CLOTH, switch	
307	3-646-090-00	RIVET, nylon	
308	🌢3-659-303-00	RETAINER (SMALL), harness	
309	🌢3-659-482-00	SUPPORT	
310	3-659-484-00	PULLEY, midway; counter	
311	3-659-485-00	BELT, counter	
312	🌢3-659-486-00	HOLDER(C), LED	
313	3-659-521-00	KNOB, switch; lever slide	
314	🌢3-659-548-00	HOLDER, T sensor	
315	🌢3-659-549-00	LID BOTTOM, shield case (A)	
316	🌢3-659-573-00	BRACKET (UPPER), FS PC board	
317	3-659-591-00	HOLDER, shield case	
318	🌢3-659-628-00	BRACKET (LOWER), FS PC board	
319	🌢3-659-629-00	BRACKET, cassette-up (left)	
320	🌢3-659-661-00	LID, upper, shield case (A)	
321	🌢3-659-673-00	FOOT (LEFT), rear	

No.	Part No.	Description	Remark
322	🌢3-659-681-00	HOLDER, PC board	
323	🌢3-659-682-00	HOLDER, PC board	
324	🌢3-659-683-00	LEG, rear (right)	
325	3-659-685-00	HOLDER (B), LED	
326	🌢3-659-688-00	LEG, fixed, CD-1	
327	3-659-719-00	STOPPER, punching M4 screw	
328	3-659-762-02	ARM, ejector static	
329	🌢3-663-217-00	HOLDER, LED 6 gang	
330	🌢3-663-236-00	HOLDER, PCB	
331	🌢3-663-246-00	INSULATOR, LS	
332	🌢3-663-247-00	INSULATOR, SY	
333	3-701-777-02	CAP	
334	🌢3-703-072-00	HOLDER, PCB	
335	3-703-075-00	CAP 2, shaft	
336	🌢3-703-141-00	HOLDER, PCB	
337	🌢A-6711-230-A	RF-2 BOARD COMPLETE	
338	🌢A-6717-162-A	SY-15 BOARD COMPLETE	
339	🌢A-6717-163-B	SY-14 BOARD COMPLETE	
340	🌢A-6725-152-A	LS-3 BOARD, COMPLETE	
341	1-543-145-21	HEAD, SENSING	
342	1-548-534-00	COUNTOR	
343	1-552-822-00	SWITCH, SLIDE	

(8) CHASSIS ASSEMBLY (2)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⊕PSW 3x8
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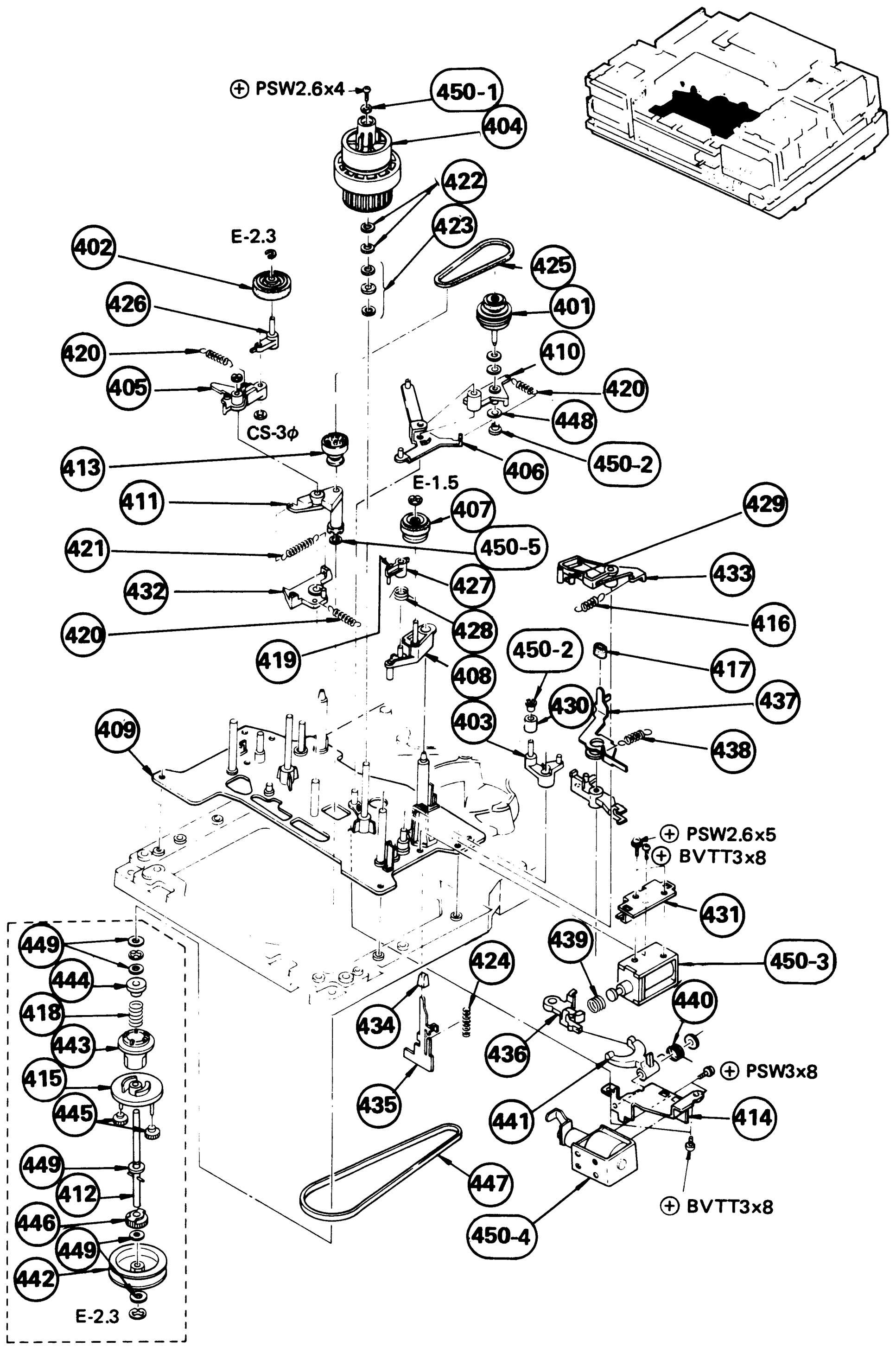
⊕PSW3x8
N3φ
370
376
379
E-3
372
358
373
356
⊕BVTT3x8
⊕PSW3x6
371
359
354
352
353
360
357
360
369
366
365
375
367
368

No.	Part No.	Description	Remark
351	X-3659-418-0	TABLE ASS'Y, REEL, S	
352	🌢X-3659-317-0	BRACKET ASS'Y, lock	
353	🌢X-3659-322-0	ARM ASS'Y, ring	
354	X-3659-323-0	PLATE ASS'Y, adjustment; R	
355	X-3659-326-0	ARM ASS'Y, cassette compartment	
356	X-3659-328-2	BAND ASS'Y, tension regulator	
357	3-143-060-00	SPRING, tension	
358	3-492-150-00	SPRING, tension	
359	3-532-725-00	SPRING, tension	
360	3-534-217-00	SPRING, tension	
361	3-537-205-00	SPRING, tension	
362	3-646-184-00	SPACER (T:0.2), reel ADJ	
363	3-646-184-11	SPACER (T:0.1), reel ADJ	
364	3-646-185-00	BEARING, thrust	

No.	Part No.	Description	Remark
365	3-648-626-00	SPRING, tension	
366	3-659-415-00	LEVER, press; REW	
367	🌢3-659-445-00	BRAKE, S	
368	3-659-446-00	LINING, brake	
369	3-659-452-00	ARM, brake release	
370	🌢3-659-454-00	ARM, ring lock	
371	3-659-455-00	SPRING	
372	🌢3-659-457-00	PLATE, slide; MS	
373	🌢3-659-458-00	DETECTION, cassette	
374	🌢3-659-562-00	ARM (1), cassette compartment	
375	🌢3-659-567-00	BRAKE, soft	
376	3-659-624-00	LOCK, cassette compartment	
377	🌢3-660-916-00	STOPPER, end	
378	3-701-441-21	WASHER	
379	3-703-074-00	CAP 3, shaft	

(9) CHASSIS ASSEMBLY (3)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450-2
413
406
E-1.5
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407
450-5
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428
416
420
450-2
417
419
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437
430
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403
438
⊕ PSW2.6x5
⊕ BVTT3x8
431
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439
450-3
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424
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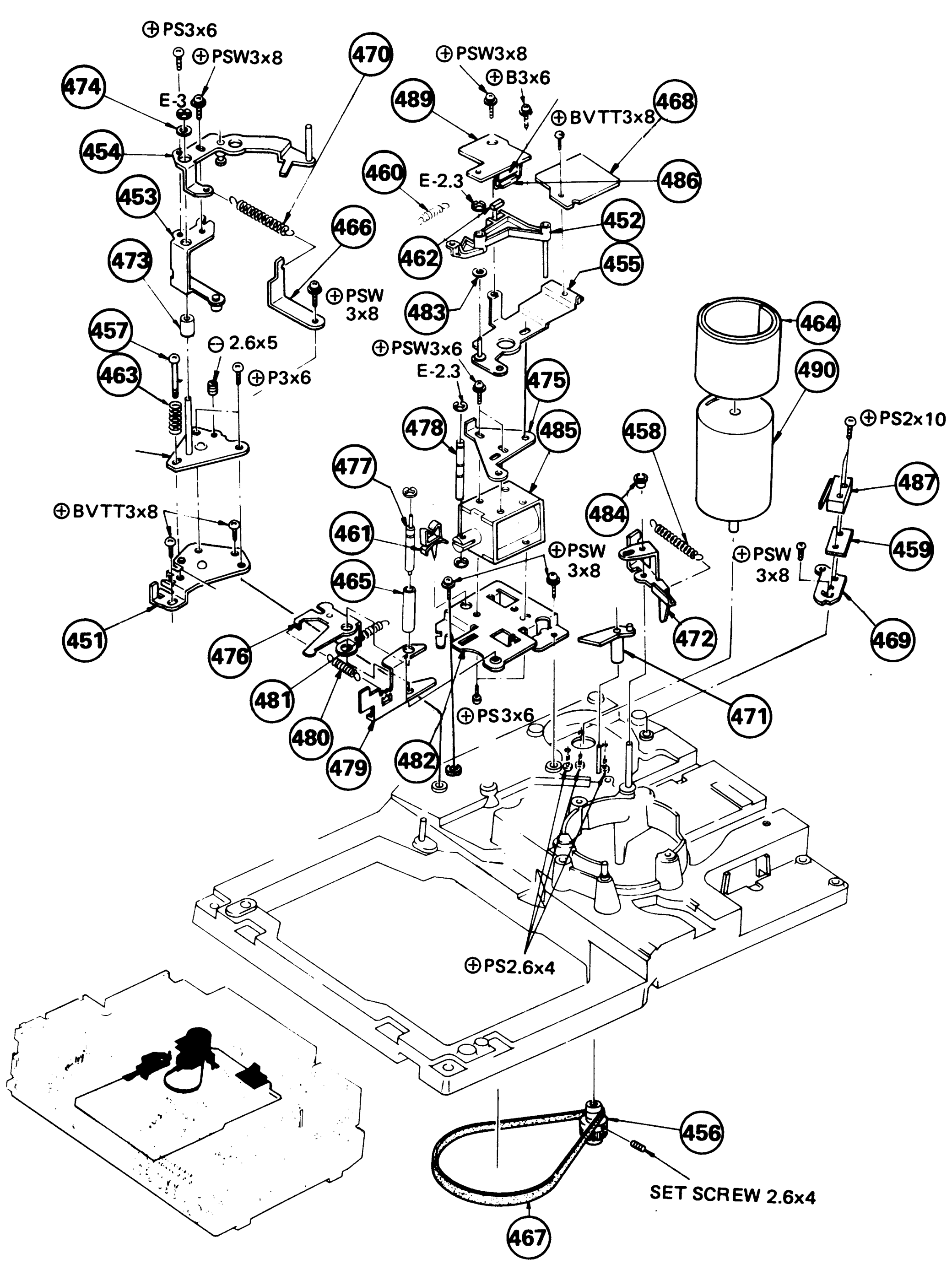
⊕ PSW3x8
415
445
435
441
414
449
412
447
446
449
450-4
⊕ BVTT3x8
442
E-2.3

No.	Part No.	Description	Remark
401	X-3653-310-0	LIMITER ASS'Y, FWD	
402	X-3653-315-0	IDLER ASS'Y	
403	♦X-3659-311-0	ARM ASS'Y, TB	
404	X-3659-416-0	TABLE ASS'Y, reel; T	
405	♦X-3659-318-0	BRACKET ASS'Y, adjustment	
406	X-3659-319-0	LEVER ASS'Y, FWD	
407	X-3659-324-0	IDLER ASS'Y, E	
408	♦X-3659-325-0	ARM ASS'Y, E idler	
409	♦X-3659-347-0	CHASSIS ASS'Y, mechanism	
410	X-3659-410-0	ARM ASS'Y, FWD	
411	X-3661-512-3	ARM ASS'Y, FF	
412	X-3661-518-0	SHAFT ASS'Y, midway pulley	
413	3-667-327-00	PULLEY (A), MIDWAY	
414	♦X-3661-572-0	FRAME ASS'Y, SL	
415	X-3662-207-0	ARM ASS'Y, planet gear	
416	3-534-217-00	SPRING, tension	
417	3-538-051-11	RUBBER, brake	
418	3-543-966-00	SPRING, compression	
419	3-553-038-00	SPACER, EBF	
420	3-642-483-00	SPRING, tension	
421	3-645-168-00	SPRING, tension	
422	3-646-184-00	SPACER	
423	3-646-185-00	BEARING	
424	3-646-312-00	SPRING	
425	3-653-324-00	BELT, FWD	
426	♦3-659-416-00	LEVER, REW	
427	♦3-659-431-00	CLAW, ratchet	
428	3-659-432-00	SPRING	
429	3-659-446-00	LINING, brake	
430	3-659-464-00	ROLLER, TB arm	
431	♦3-659-470-00	BASE, PB solenoid	
432	♦3-659-564-00	LEVER, FF press	
433	♦3-659-791-00	BRAKE, T	
434	3-667-320-00	CAP	
435	♦3-660-943-00	PLATE, erasing protection	
436	♦3-660-982-00	ARM, PB press	
437	♦3-660-983-06	BRAKE, P	
438	3-674-402-00	SPRING, TENSION	
439	3-660-985-00	SPRING, compression	
440	3-661-570-00	SPRING	
441	♦3-661-574-00	LEVER, clutch	
442	3-662-221-02	GEAR, mechanism pulley	
443	3-662-223-00	CLUTCH	
444	3-662-225-00	RETAINER, spring	
445	3-662-274-00	GEAR, planet	
446	3-662-275-00	GEAR, driving	
447	3-662-347-00	BELT, FF	
448	3-701-437-11	WASHER	
449	3-701-439-21	WASHER	
450-1	3-701-441-21	WASHER	
450-2	3-703-075-00	CAP 2, shaft	
450-3	1-454-185-21	SOLENOID	
450-4	1-454-229-00	SOLENOID, PLUNGER	
450-5	3-701-439-11	WASHER	

(10) CHASSIS ASSEMBLY (4)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⊕P3x6
⊕BVTT3x8
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470
489
⊕PSW3x8
⊕B3x6
⊕BVTT3x8
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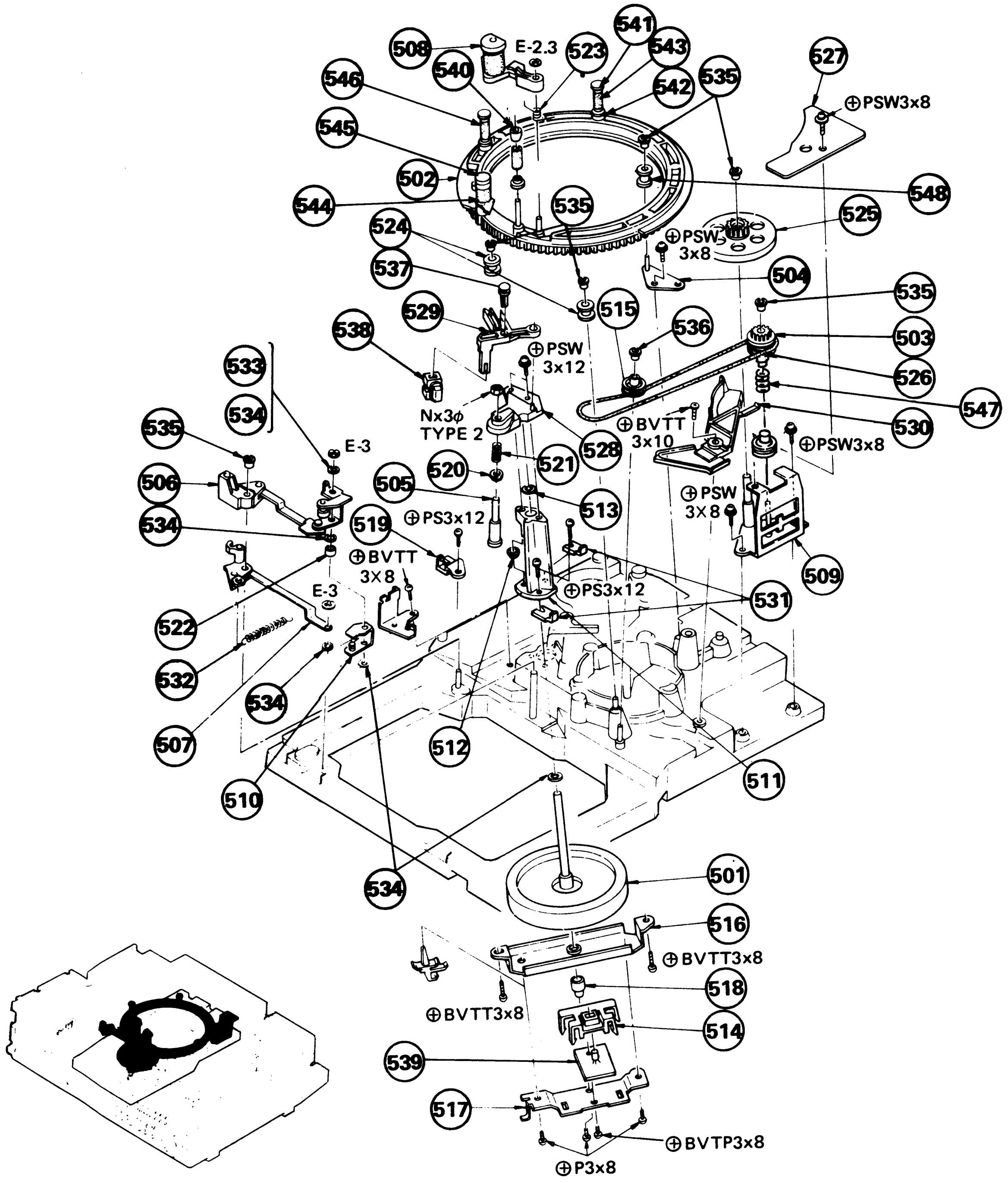
486
460
E-2.3
466
⊕PSW 3x8
462
452
455
483
⊕PSW3x6
E-2.3
475
478
485
477
461
465
⊕PSW 3x8
476
481
480
479
⊕PS3x6
482
484
458
472
471
464
490
⊕PS2x10
487
459
⊕PSW 3x8
469
⊕PS2.6x4
456
SET SCREW 2.6x4
467

No.	Part No.	Description	Remark
451	💧X-3659-305-0	PLATE ASS'Y, adjustment	
452	X-3659-310-4	ARM ASS'Y, detection; slack	
453	💧X-3659-369-0	ARM ASS'Y, tension regulator	
454	💧X-3659-370-2	PLATE ASS'Y, arm	
455	💧X-3659-380-0	BASE ASS'Y	
456	X-3661-524-0	PULLEY ASS'Y, motor	
457	💧3-437-173-02	SCREW, head adjusting	
458	3-533-223-11	SPRING, tension	
459	3-534-263-00	INSULATOR	
460	3-542-476-00	SPRING, tension	
461	💧3-644-407-00	CLIP, AC wire; E	
462	3-646-571-00	MAGNET	
463	3-652-413-00	SPRING, compression	
464	💧3-658-173-00	SHIELD, capstan	
465	💧3-658-194-00	SPACER (4-25)	
466	💧3-659-319-00	PLATE, adjustment; BT	
467	3-659-351-00	BELT, capstan	
468	💧3-659-359-00	PLATE, boost; reed switch	
469	💧3-659-360-00	BRACKET, threading end; MS	
470	3-659-378-02	SPRING, tension	
471	💧3-659-392-00	ARM, lock keep	
472	💧3-659-557-04	ARM, lock	
473	3-659-757-00	SPACER (4x8.5)	
474	3-659-758-00	WASHER	
475	💧3-659-775-00	PLATE, adjustment; lever shaft	
476	💧3-671-064-00	LEVER (B), PRESS, PINCH	
477	💧3-659-778-00	SHAFT, pinch press lever	
478	💧3-659-780-00	PIN, lever; pinch press	
479	💧3-671-063-00	LEVER (A), PRESS, PINCH	
480	3-659-784-00	SPRING, tension	
481	3-659-785-11	SPRING, tension	
482	💧3-659-789-00	BASE, pinch plunger	
483	3-701-439-21	WASHER	
484	3-703-074-00	CAP3, shaft	
485	1-454-217-00	SOLENOID, PLUNGER	
486	1-552-180-00	SWITCH, REED	
487	1-552-665-00	SWITCH, MICRO	
488	💧1-601-762-00	CN-5 BOARD	
489	💧1-601-763-00	CN-6 BOARD	
490	A-6737-096-A	MOTOR ASS'Y, CAPSTAN	

(11) CHASSIS ASSEMBLY (5)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⊕PSW 3x8
524
504
537
535
529
515
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503
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⊕PSW 3x12
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533
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547
Nx3φ TYPE 2
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⊕PSW 3x8
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519
⊕PS3x12
⊕BVTT 3x8
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E-3
⊕PS3x12
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512
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510
534
501
516
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518
⊕BVTT3x8
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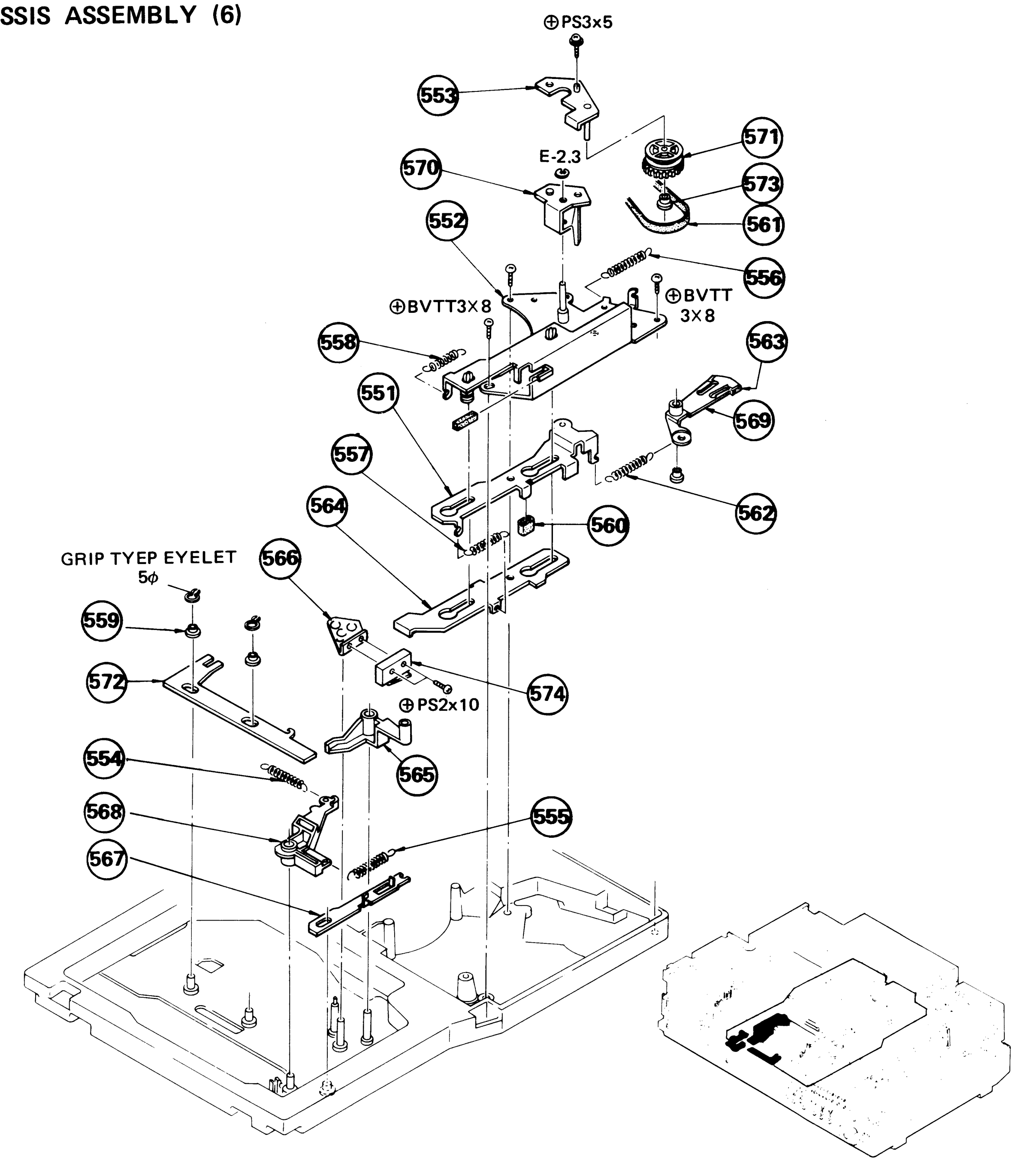
539
517
⊕BVTP3x8
⊕P3x8

No.	*Part No.*	*Description*	*Remark*
501	A-6735-032-A	CAPSTAN BLOCK ASS'Y	
502	A-6750-087-A	RING BLOCK ASS'Y, threading	508, 523
503	X-3659-301-0	LIMITER ASS'Y, E	
504	🌢X-3664-337-0	SUPPORT ASS'Y, ring roller	
505	X-3659-308-0	GUIDE ASS'Y, No. 0	
506	X-3659-333-0	STOPPER ASS'Y, tension regulator	
507	X-3659-335-5	LINK ASS'Y (1), release	_ _ _ _532
508	X-3659-337-0	ARM ASS'Y, pinch roller	
509	🌢X-3659-340-0	BRACKET ASS'Y, midway pulley	
510	X-3659-386-3	LINK ASS'Y (2), release	
511	X-3662-201-0	HOUSING ASS'Y, capstan	
512	3-646-182-00	CAP, oil	
513	3-646-183-00	ABSORBER, capstan oil	
514	3-658-161-03	HOLDER, DME	
515	3-659-302-00	PULLEY, idle	
516	3-659-312-00	RETAINER, capstan	
517	🌢3-659-313-00	PLATE, adjustment; DME	
518	3-659-314-00	RETAINER, thrust	
519	🌢3-659-320-00	HOOK, spring; release	
520	3-659-337-00	FLANGE No. 0, guide upper	
521	3-659-338-00	SPRING, compression	
522	3-659-365-00	SPACER (4x3)	
523	3-659-388-00	SPRING	
524	3-659-391-00	ROLLER, ring	
525	3-659-396-00	GEAR (B), midway	
526	3-659-397-XX	BELT, eject	
527	🌢3-659-414-00	PLATE, control	
528	3-659-551-00	FRAME, guide; No. 0	
529	🌢3-659-632-00	HOLDER, S sensor	
530	🌢3-659-691-00	RETAINER (LARGE), harness	
531	3-659-759-11	SPACER, capstan	
532	3-660-911-00	SPRING, tension	
533	3-701-441-11	WASHER	
534	3-701-441-21	WASHER	
535	3-703-074-00	CAP3, shaft	
536	3-703-075-00	CAP2, shaft	
537	4-829-039-00	RIVET, nylon	
538	1-543-145-21	HEAD, SENSING	
539	🌢1-600-101-00	FG-1 BOARD	
540	🌢3-659-385-00	CAP (LARGE), GUIDE ROLLER	
541	🌢3-659-643-00	CAP (SMALL) (UPPER), GUIDE ROLLER	
542	🌢3-659-644-00	CAP (SMALL) (LOWER), GUIDE ROLLER	
543	🌢3-659-645-00	ROLLER (SMALL), GUIDE	
544	🌢3-659-646-00	ROLLER (LARGE), GUIDE	
545	🌢3-659-647-00	CAP (LARGE) (UPPER), GUIDE ROLLER	
546	🌢3-660-912-00	ROLLER, PRECEDING GUIDE	
547	3-660-987-00	SPRING COMPRESSION	
548	🌢3-664-498-00	ROLLER (N), RING	

(12) CHASSIS ASSEMBLY (6)


⊕PS3x5
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570
E-2.3
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⊕BVTT3X8
⊕BVTT 3X8
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GRIP TYEP EYELET 5φ
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⊕PS2x10
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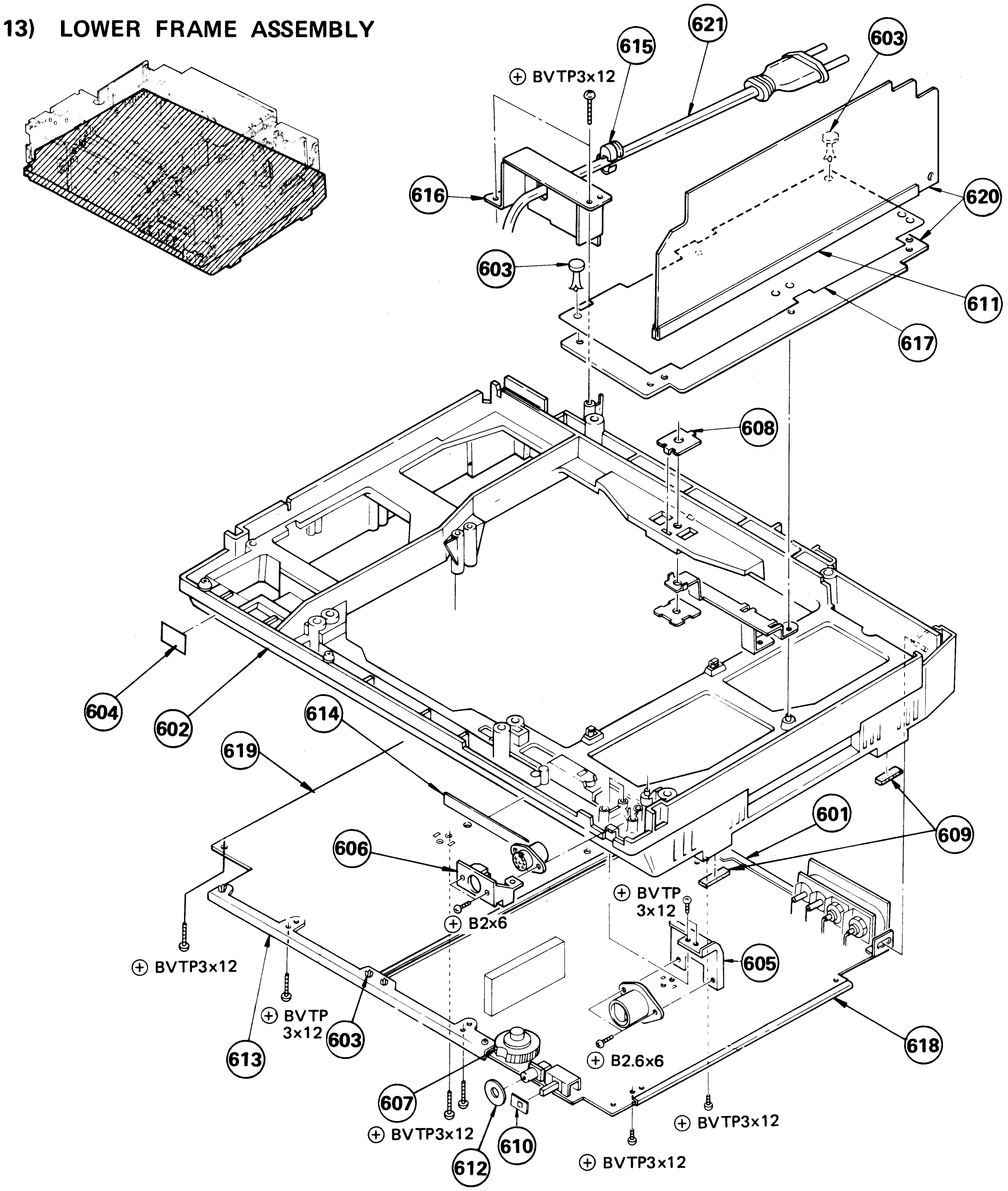
No.	Part No.	Description	Remark
551	♦ X-3659-303-0	LEVER (LOWER) ASS'Y, EJECT	560
552	♦X-3669-006-0	BASE ASS'Y, UNIT, THREADING	
553	♦ X-3659-360-0	ARM (B) ASS'Y, gear pulley hold	
554	3-534-274-XX	SPRING, tension	
555	3-532-125-00	SPRING, tension	
556	3-533-223-11	SPRING, tension	
557	3-642-510-00	SPRING, tension	
558	♦ 3-642-513-00	SPRING, tension	
559	3-646-271-00	BOSS	
560	3-655-856-11	RETAINER, tension regulator	
561	3-659-301-00	BELT, threading	

No.	Part No.	Description	Remark
562	3-659-393-00	SPRING, tension	
563	3-659-394-00	SHOE, brake	
564	♦ 3-659-395-00	LEVER (UPPER), EJECT	
565	3-659-453-00	ARM, EL	
566	♦3-663-005-00	BRACKET (P), C-SW	
567	♦ 3-659-460-00	PLATE, release; lock	
568	3-659-560-00	ARM, E	
569	♦ 3-659-679-00	ARM, motor brake	
570	♦ 3-659-705-00	ARM (A), gear pulley hold	
571	3-659-706-11	PULLEY, gear	
572	♦ 3-663-029-00	JOINT	
573	3-703-074-00	CAP 3, shaft	
574	1-552-663-00	SWITCH, MICRO	

(13) LOWER FRAME ASSEMBLY


615
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⊕ BVTP3x12
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620
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606
⊕ BVTP 3x12
⊕ B2x6
605
⊕ BVTP3x12
613
⊕ BVTP 3x12
603
⊕ B2.6x6
618
607
⊕ BVTP3x12
610
612
⊕ BVTP3x12
⊕ BVTP3x12

No.	Part No.	Description	Remark
601	X-3662-208-0	BRACKET (A) ASS'Y, chassis	
602	X-3663-208-0	FRAME ASS'Y, lower (M) ——	604, 614
603	3-646-090-00	RIVET, nylon	
604	3-656-344-00	LABEL, power switch	
605	♦3-659-522-00	BRACKET, camera connector	
606	3-659-523-00	BRACKET, remote control	
607	3-659-528-00	KNOB, track control	
608	♦3-659-529-00	SPACER, plate	
609	3-659-532-00	FELT, foot	
610	3-659-663-00	COVER, slide switch	
611	♦3-622-245-00	REINFORCMENT, CH-3	
612	3-662-261-00	COVER, microphone jack	
613	♦3-662-279-00	BRACKET (B), chassis	

No.	Part No.	Description	Remark
614	3-662-280-00	LABEL, input	
615	3-663-277-00	BUSHING, CORD	
616	3-663-224-12	PANEL, power	
617	♦3-663-231-00	INSULATOR	
618	♦A-6711-285-A	YC-7 BOARD, COMPLETE	
619	♦A-6713-093-A	AV-1 BOARD, COMPLETE	
620	♦A-6715-100-A	B-54 BOARD, COMPLETE	
621	⚠1-555-628-00	CORD, POWER	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
	♠:A-6710-285-A	YC-7 BOARD, COMPLETE *********************			
	1-536-614-00	TERMINAL BOARD, CONTROL PANEL			
		CAPACITOR			
C001	1-123-307-00	ELECT	100MF	20%	10V
C002	1-123-307-00	ELECT	100MF	20%	10V
C003	1-102-965-00	CERAMIC	39PF	5%	50V
C004	1-102-965-00	CERAMIC	39PF	5%	50V
C005	1-101-006-00	CERAMIC	0.047MF		50V
C006	1-123-306-00	ELECT	47MF	20%	10V
C007	1-108-377-00	MYLAR	0.01MF	10%	100V
C008	1-108-369-00	MYLAR	0.0022MF	10%	100V
C009	1-123-311-00	ELECT	1000MF	20%	10V
C010	1-123-306-00	ELECT	47MF	20%	10V
C011	1-123-311-00	ELECT	1000MF	20%	10V
C012	1-161-013-00	CERAMIC	0.01MF	10%	25V
C013	1-101-006-00	CERAMIC	0.047MF		50V
C014	1-108-374-00	MYLAR	0.0056MF	10%	100V
C015	1-101-059-00	CERAMIC	510PF	5%	50V
C016	1-101-059-00	CERAMIC	510PF	5%	50V
C017	1-123-306-00	ELECT	47MF	20%	10V
C018	1-123-306-00	ELECT	47MF	20%	10V
C019	1-102-823-00	CERAMIC	43PF	5%	50V
C020	1-102-822-00	CERAMIC	390PF	5%	50V
C022	1-101-006-00	CERAMIC	0.047MF		50V
C023	1-102-976-00	CERAMIC	180PF	5%	50V
C024	1-161-021-00	CERAMIC	0.047MF	10%	25V
C025	1-123-332-00	ELECT	47MF	20%	16V
C026	1-123-332-00	ELECT	47MF	20%	16V
C027	1-123-333-00	ELECT	100MF	20%	16V
C028	1-101-006-00	CERAMIC	0.047MF		50V
C029	1-123-333-00	ELECT	100MF	20%	16V
C030	1-101-890-00	CERAMIC	75PF	5%	50V
C031	1-102-951-00	CERAMIC	15PF	5%	50V
C032	1-102-978-00	CERAMIC	220PF	5%	50V
C033	1-123-307-00	ELECT	100MF	20%	10V
C035	1-123-332-00	ELECT	47MF	20%	16V
C036	1-123-296-00	ELECT	220MF	20%	6.3V
C037	1-102-965-00	CERAMIC	39PF	5%	50V
C038	1-101-006-00	CERAMIC	0.047MF		50V
C039	1-123-379-00	ELECT	0.47MF	20%	50V
C040	1-123-307-00	ELECT	100MF	20%	10V
C041	1-123-356-00	ELECT	10MF	20%	16V
C042	1-123-318-00	ELECT	33MF	20%	16V
C043	1-102-961-00	CERAMIC	27PF	5%	50V
C044	1-123-356-00	ELECT	10MF	20%	16V
C045	1-161-025-00	CERAMIC	0.1MF	10%	25V
C046	1-102-820-00	CERAMIC	330PF	5%	50V
C047	1-123-318-00	ELECT	33MF	20%	16V
C048	1-123-318-00	ELECT	33MF	20%	16V
C049	1-161-021-00	CERAMIC	0.047MF	10%	25V
C050	1-161-013-00	CERAMIC	0.01MF	10%	25V
C051	1-161-013-00	CERAMIC	0.01MF	10%	25V
C052	1-123-356-00	ELECT	10MF	20%	16V
C053	1-161-021-00	CERAMIC	0.047MF	10%	25V
C054	1-123-356-00	ELECT	10MF	20%	16V
C055	1-123-333-00	ELECT	100MF	20%	16V
C056	1-123-332-00	ELECT	47MF	20%	16V
C057	1-123-330-00	ELECT	22MF	20%	16V
C058	1-161-013-00	CERAMIC	0.01MF	10%	25V
C059	1-123-332-00	ELECT	47MF	20%	16V
C060	1-123-332-00	ELECT	47MF	20%	16V
C061	1-161-013-00	CERAMIC	0.01MF	10%	25V
C062	1-102-116-00	CERAMIC	680PF	10%	50V
C063	1-161-013-00	CERAMIC	0.01MF	10%	25V
C064	1-123-332-00	ELECT	47MF	20%	16V
C065	1-102-530-00	CERAMIC	120PF	5%	50V
C066	1-161-013-00	CERAMIC	0.01MF	10%	25V
C067	1-123-332-00	ELECT	47MF	20%	16V
C068	1-123-332-00	ELECT	47MF	20%	16V
C069	1-161-013-00	CERAMIC	0.01MF	10%	25V
C070	1-161-013-00	CERAMIC	0.01MF	10%	25V
C071	1-161-013-00	CERAMIC	0.01MF	10%	25V
C072	1-123-307-00	ELECT	100MF	20%	10V
C073	1-101-004-00	CERAMIC	0.01MF		50V
C074	1-102-950-00	CERAMIC	13PF	5%	50V
C075	1-101-882-00	CERAMIC	51PF	5%	50V
C076	1-101-882-00	CERAMIC	51PF	5%	50V
C077	1-102-950-00	CERAMIC	13PF	5%	50V
C078	1-123-332-00	ELECT	47MF	20%	16V
C079	1-101-004-00	CERAMIC	0.01MF		50V
C081	1-102-816-00	CERAMIC	120PF	5%	50V
C082	1-123-306-00	ELECT	47MF	20%	10V
C083	1-123-322-00	ELECT	330MF	20%	16V
C084	1-123-332-00	ELECT	47MF	20%	16V
C085	1-123-296-00	ELECT	220MF	20%	6.3V
C086	1-102-965-00	CERAMIC	39PF	5%	50V
C087	1-123-333-00	ELECT	100MF	20%	16V
C088	1-102-981-00	CERAMIC	300PF	5%	50V
C089	1-102-822-00	CERAMIC	390PF	5%	50V
C092	1-102-976-00	CERAMIC	180PF	5%	50V
C093	1-123-654-00	CERAMIC	47MF	20%	16V
C094	1-101-880-00	CERAMIC	47PF	5%	50V
C095	1-123-380-00	ELECT	1MF	20%	50V
C097	1-123-332-00	ELECT	47MF	20%	16V
C098	1-101-004-00	CERAMIC	0.01MF		50V
C099	1-123-328-00	ELECT	4.7MF	20%	25V
C104	1-102-953-00	CERAMIC	18PF	5%	50V
C106	1-101-006-00	CERAMIC	0.047MF		50V
C107	1-101-004-00	CERAMIC	0.01MF		50V
C108	1-101-006-00	CERAMIC	0.047MF		50V
C109	1-102-822-00	CERAMIC	390PF	5%	50V
C110	1-101-884-00	CERAMIC	56PF	5%	50V
C111	1-102-979-00	CERAMIC	240PF	5%	50V
C112	1-101-004-00	CERAMIC	0.01MF		50V

YC-7

Ref.No.	Part No.	Description			Remark
C113	1-123-356-00	ELECT	10MF	20%	16V
C114	1-101-006-00	CERAMIC	0.047MF		50V
C115	1-101-006-00	CERAMIC	0.047MF		50V
C116	1-101-006-00	CERAMIC	0.047MF		50V
C117	1-123-328-00	ELECT	4.7MF	20%	25V
C118	1-123-328-00	ELECT	4.7MF	20%	25V
C119	1-101-006-00	CERAMIC	0.047MF		50V
C121	1-123-356-00	ELECT	10MF	20%	16V
C122	1-131-202-00	TANTALUM	1.5MF	20%	20V
C123	1-101-006-00	CERAMIC	0.047MF		50V
C124	1-101-884-00	CERAMIC	56PF	5%	50V
C125	1-102-824-00	CERAMIC	430PF	5%	50V
C126	1-101-004-00	CERAMIC	0.01MF		50V
C127	1-102-658-00	CERAMIC	180PF	5%	50V
C128	1-131-196-00	TANTALUM	2.2MF	20%	20V
C129	1-108-381-00	MYLAR	0.022MF	10%	100V
C130	1-101-006-00	CERAMIC	0.047MF		50V
C131	1-101-004-00	CERAMIC	0.01MF		50V
C132	1-101-006-00	CERAMIC	0.047MF		50V
C133	1-101-004-00	CERAMIC	0.01MF		50V
C134	1-101-004-00	CERAMIC	0.01MF		50V
C135	1-102-973-00	CERAMIC	100PF	5%	50V
C136	1-102-820-00	CERAMIC	330PF	5%	50V
C137	1-102-973-00	CERAMIC	100PF	5%	50V
C138	1-101-006-00	CERAMIC	0.047MF		50V
C139	1-123-306-00	ELECT	47MF	20%	10V
C140	1-123-380-00	ELECT	1MF	20%	50V
C141	1-123-332-00	ELECT	47MF	20%	16V
C142	1-123-380-00	ELECT	1MF	20%	50V
C145	1-101-006-00	CERAMIC	0.047MF		50V
C146	1-123-332-00	ELECT	47MF	20%	16V
C147	1-123-332-00	ELECT	47MF	20%	16V
C148	1-101-004-00	CERAMIC	0.01MF		50V
C149	1-102-850-00	CERAMIC	56PF	5%	50V
C150	1-101-004-00	CERAMIC	0.01MF		50V
C152	1-101-004-00	CERAMIC	0.01MF		50V
C154	1-101-004-00	CERAMIC	0.01MF		50V
C155	1-161-013-00	CERAMIC	0.01MF	10%	25V
C156	1-101-006-00	CERAMIC	0.047MF		50V
C157	1-101-006-00	CERAMIC	0.047MF		50V
C158	1-102-816-00	CERAMIC	120PF	5%	50V
C159	1-123-332-00	ELECT	47MF	20%	16V
C160	1-101-004-00	CERAMIC	0.01MF		50V
C161	1-101-004-00	CERAMIC	0.01MF		50V
C163	1-101-004-00	CERAMIC	0.01MF		50V
C164	1-102-973-00	CERAMIC	100PF	5%	50V
C166	1-101-004-00	CERAMIC	0.01MF		50V
C167	1-161-013-00	CERAMIC	0.01MF	10%	25V
C169	1-101-004-00	CERAMIC	0.01MF		50V
C170	1-123-356-00	ELECT	10MF	20%	16V
C171	1-101-004-00	CERAMIC	0.01MF		50V
C172	1-101-004-00	CERAMIC	0.01MF		50V
C173	1-102-973-00	CERAMIC	100PF	5%	50V
C174	1-101-004-00	CERAMIC	0.01MF		50V
C175	1-101-004-00	CERAMIC	0.01MF		50V
C177	1-101-004-00	CERAMIC	0.01MF		50V
C178	1-101-004-00	CERAMIC	0.01MF		50V
C179	1-123-332-00	ELECT	47MF	20%	16V
C180	1-101-004-00	CERAMIC	0.01MF		50V
C181	1-123-332-00	ELECT	47MF	20%	16V
C182	1-101-004-00	CERAMIC	0.01MF		50V
C183	1-102-973-00	CERAMIC	100PF	5%	50V
C184	1-101-004-00	CERAMIC	0.01MF		50V
C185	1-161-013-00	CERAMIC	0.01MF	10%	25V
C186	1-161-013-00	CERAMIC	0.01MF	10%	25V
C187	1-101-004-00	CERAMIC	0.01MF		50V
C188	1-101-004-00	CERAMIC	0.01MF		50V
C189	1-161-013-00	CERAMIC	0.01MF	10%	25V
C191	1-102-074-00	CERAMIC	0.001MF	10%	50V
C192	1-102-074-00	CERAMIC	0.001MF	10%	50V
C193	1-102-961-00	CERAMIC	27PF	5%	50V
C194	1-101-004-00	CERAMIC	0.01MF		50V
C195	1-101-004-00	CERAMIC	0.01MF		50V
C196	1-101-884-00	CERAMIC	56PF	5%	50V
C197	1-101-006-00	CERAMIC	0.047MF		50V
C198	1-101-004-00	CERAMIC	0.01MF		50V
C199	1-123-332-00	ELECT	47MF	20%	16V
C200	1-101-004-00	CERAMIC	0.01MF		50V
C201	1-123-380-00	ELECT	1MF	20%	50V
C202	1-101-004-00	CERAMIC	0.01MF		50V
C203	1-101-059-00	CERAMIC	510PF	5%	50V
C204	1-123-296-00	ELECT	220MF	20%	6.3V
C205	1-123-295-00	ELECT	100MF	20%	6.3V
C206	1-123-318-00	ELECT	33MF	20%	16V
C207	1-123-332-00	ELECT	47MF	20%	16V
C208	1-123-332-00	ELECT	47MF	20%	16V
C209	1-161-021-00	CERAMIC	0.047MF	10%	25V
C210	1-123-356-00	ELECT	10MF	20%	16V
C211	1-108-377-00	MYLAR	0.01MF	10%	100V
C212	1-108-377-00	MYLAR	0.01MF	10%	100V
C213	1-108-377-00	MYLAR	0.01MF	10%	100V
C214	1-161-017-00	CERAMIC	0.022MF	10%	25V
C215	1-161-021-00	CERAMIC	0.047MF	10%	25V
C216	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V
C217	1-102-820-00	CERAMIC	330PF	5%	50V
C218	1-123-332-00	ELECT	47MF	20%	16V
C219	1-123-332-00	ELECT	47MF	20%	16V
C220	1-101-006-00	CERAMIC	0.047MF		50V
C221	1-123-332-00	ELECT	47MF	20%	16V
C222	1-123-332-00	ELECT	47MF	20%	16V
C223	1-101-006-00	CERAMIC	0.047MF		50V
C224	1-101-004-00	CERAMIC	0.01MF		50V
C225	1-123-356-00	ELECT	10MF	20%	16V
C226	1-101-006-00	CERAMIC	0.047MF		50V
C230	1-102-963-00	CERAMIC	33PF	5%	50V
C231	1-123-330-00	ELECT	22MF	20%	16V

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
C233	1-123-298-00	ELECT	470MF	20%	6.3V
C234	1-161-021-00	CERAMIC	0.047MF	10%	25V
C240	1-102-962-00	CERAMIC	30PF	5%	50V
C241	1-102-976-00	CERAMIC	180PF	5%	50V
C244	1-102-973-00	CERAMIC	100PF	5%	50V
C245	1-101-005-00	CERAMIC	0.022MF		50V

CONNECTOR

CN001●:	1-508-744-00	PIN, CONNECTOR 10P
CN002●:	1-508-797-00	PIN, CONNECTOR 4P
CN003	1-508-910-00	PIN, CONNECTOR 12P
CN004●:	1-508-797-00	PIN, CONNECTOR 4P
CN005●:	1-508-743-00	PIN, CONNECTOR 5P
CN006●:	1-508-744-00	PIN, CONNECTOR 10P
CN007●:	1-508-846-00	PIN, CONNECTOR 8P
CN008●:	1-508-910-00	PIN, CONNECTOR 12P
CN009●:	1-508-910-00	PIN, CONNECTOR 12P
CN010●:	1-508-846-00	PIN, CONNECTOR 8P

JACK

CNJ005	1-507-667-00	JACK, MIC

DIODE

D001	8-719-815-55	DIODE 1S1555
D002	8-719-815-55	DIODE 1S1555
D003	8-719-815-55	DIODE 1S1555
D004	8-719-815-55	DIODE 1S1555
D005	8-719-901-33	DIODE 1SS133
D006	8-719-901-33	DIODE 1SS133
D007	8-719-901-33	DIODE 1SS133
D008	8-719-815-55	DIODE 1S1555
D009	8-719-901-33	DIODE 1SS133
D010	8-719-815-55	DIODE 1S1555
D011	8-719-815-55	DIODE 1S1555
D012	8-719-815-55	DIODE 1S1555
D013	8-719-815-55	DIODE 1S1555
D014	8-719-815-55	DIODE 1S1555
D015	8-719-815-55	DIODE 1S1555
D016	8-719-901-33	DIODE 1SS133
D017	8-719-901-33	DIODE 1SS133
D018	8-719-901-33	DIODE 1SS133
D019	8-719-815-55	DIODE 1S1555
D020	8-719-815-55	DIODE 1S1555
D021	8-719-901-33	DIODE 1SS133
D022	8-719-901-33	DIODE 1SS133
D023	8-719-901-33	DIODE 1SS133
D024	8-719-901-33	DIODE 1SS133
D025	8-719-901-33	DIODE 1SS133
D026	8-719-901-33	DIODE 1SS133
D027	8-719-709-25	DIODE 1S1925-P
D028	8-719-709-25	DIODE 1S1925-P
D029	8-719-901-33	DIODE 1SS133
D030	8-719-901-33	DIODE 1SS133

Ref.No.	Part No.	Description	Remark
D031	8-719-901-33	DIODE 1SS133	

DELAY LINE

DL001	1-415-204-00	DELAY LINE
DL001	1-415-204-00	DELAY LINE
DL002	1-415-146-00	DELAY LINE
DL003	1-415-148-00	DELAY LINE
DL003	1-415-148-00	DELAY LINE
DL004	1-415-198-00	DELAY LINE (1H)
DL005	1-415-198-00	DELAY LINE (1H)

FILTER

FL001	1-231-375-00	FILTER, BANDPASS
FL001	1-231-375-00	FILTER, BAND PASS

IC

IC001	8-751-870-00	IC CX-187
IC002	8-751-360-00	IC CX-136A
IC003	8-759-240-69	IC TC4069UBP
IC004	8-751-300-00	IC CX-130
IC005	8-751-300-00	IC CX-130
IC006	8-751-300-00	IC CX-130
IC007=>	8-759-600-50	IC CX-150B
IC008	8-751-300-00	IC CX-130
IC009	8-751-300-00	IC CX-130
IC010	8-751-300-00	IC CX-130
IC011	8-751-300-00	IC CX-130
IC012	8-751-300-00	IC CX-130
IC013=>	8-749-938-30	IC BX-383A
IC014=>	8-749-938-40	IC BX-384A

COIL

L002	1-407-168-XX	MICRO INDUCTOR 82UH
L003	1-407-160-XX	MICRO INDUCTOR 18UH
L004	1-407-171-XX	MICRO INDUCTOR 150UH
L005	1-407-166-XX	MICRO INDUCTOR 56UH
L006	1-407-161-XX	MICRO INDUCTOR 22UH
L007	1-407-165-XX	MICRO INDUCTOR 47UH
L008	1-407-169-XX	MICRO INDUCTOR 100UH
L009	1-407-171-XX	MICRO INDUCTOR 150UH
L010	1-407-168-XX	MICRO INDUCTOR 82UH
L011	1-407-159-XX	MICRO INDUCTOR 15UH
L012	1-407-159-XX	MICRO INDUCTOR 15UH
L013	1-407-170-XX	MICRO INDUCTOR 120UH
L014	1-407-172-XX	MICRO INDUCTOR 180UH
L015	1-407-170-XX	MICRO INDUCTOR 120UH
L016	1-407-161-XX	MICRO INDUCTOR 22UH
L017	1-407-163-XX	MICRO INDUCTOR 33UH
L018	1-407-160-XX	MICRO INDUCTOR 18UH
L020	1-407-167-XX	MICRO INDUCTOR 68UH
L021	1-407-171-XX	MICRO INDUCTOR 150UH
L022	1-407-168-XX	MICRO INDUCTOR 82UH

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description	Remark
L023	1-407-170-XX	MICRO INDUCTOR 120UH	
L024	1-407-170-XX	MICRO INDUCTOR 120UH	
L025	1-407-188-XX	MICRO INDUCTOR 6.8UH	
L026	1-407-167-XX	MICRO INDUCTOR 68UH	
L027	1-407-167-XX	MICRO INDUCTOR 68UH	
L028	1-407-188-XX	MICRO INDUCTOR 6.8UH	
L029	1-407-189-XX	MICRO INDUCTOR 8.2UH	
L030	1-407-177-XX	MICRO INDUCTOR 470UH	
L031	1-407-189-XX	MICRO INDUCTOR 8.2UH	
L032	1-407-177-XX	MICRO INDUCTOR 470UH	
L033	1-407-177-XX	MICRO INDUCTOR 470UH	
L034	1-407-166-XX	MICRO INDUCTOR 56UH	
L035	1-407-157-XX	MICRO INDUCTOR 10UH	
L036	1-407-177-XX	MICRO INDUCTOR 470UH	

VARIABLE COIL

Ref.No.	Part No.	Description	Remark
LV001	1-407-571-00	COIL, VARIABLE 22UH	
LV002	1-407-569-00	COIL, VARIABLE 10UH	
LV003	1-407-571-00	COIL, VARIABLE 22UH	

TRANSISTOR

Ref.No.	Part No.	Description	Remark
Q001	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q002	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q003	8-729-384-48	TRANSISTOR 2SA844	
Q004	8-729-384-48	TRANSISTOR 2SA844	
Q005	8-729-384-48	TRANSISTOR 2SA844	
Q006	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q007	=>8-729-663-47	TRANSISTOR 2SC1364	
Q008	8-729-384-48	TRANSISTOR 2SA844	
Q009	=>8-729-194-57	TRANSISTOR 2SC945-P	
Q010	=>8-729-194-57	TRANSISTOR 2SC945-P	
Q011	=>8-729-663-47	TRANSISTOR 2SC1364	
Q012	=>8-729-384-48	TRANSISTOR 2SA844	
Q013	=>8-729-384-48	TRANSISTOR 2SA844	
Q014	=>8-729-663-47	TRANSISTOR 2SC1364	
Q015	=>8-729-663-47	TRANSISTOR 2SC1364	
Q016	=>8-729-663-47	TRANSISTOR 2SC1364	
Q017	=>8-729-663-47	TRANSISTOR 2SC1364	
Q018	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q019	=>8-729-663-47	TRANSISTOR 2SC1364	
Q020	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q021	=>8-729-384-48	TRANSISTOR 2SA844	
Q022	8-729-384-48	TRANSISTOR 2SA844	
Q023	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q024	=>8-729-384-48	TRANSISTOR 2SA844	
Q025	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q026	=>8-729-663-47	TRANSISTOR 2SC1364	
Q027	8-724-375-01	TRANSISTOR 2SC403C	
Q028	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q029	8-724-375-01	TRANSISTOR 2SC403C	
Q030	=>8-729-663-47	TRANSISTOR 2SC1364	
Q031	=>8-729-663-47	TRANSISTOR 2SC1364	
Q032	=>8-729-663-47	TRANSISTOR 2SC1364	
Q033	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q034	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q035	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q036	8-729-384-48	TRANSISTOR 2SA844	
Q037	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q038	8-729-384-48	TRANSISTOR 2SA844	
Q039	=>8-729-663-47	TRANSISTOR 2SC1364	
Q040	8-729-384-48	TRANSISTOR 2SA844	
Q041	8-729-384-48	TRANSISTOR 2SA844	
Q043	=>8-729-663-47	TRANSISTOR 2SC1364	
Q044	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q045	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q046	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q047	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q048	=>8-729-384-48	TRANSISTOR 2SA844	
Q049	=>8-729-663-47	TRANSISTOR 2SC1364	
Q050	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q051	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q052	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q053	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q054	=>8-729-663-47	TRANSISTOR 2SC1364	
Q055	=>8-729-663-47	TRANSISTOR 2SC1364	
Q056	=>8-729-663-47	TRANSISTOR 2SC1364	
Q057	=>8-729-663-47	TRANSISTOR 2SC1364	
Q058	=>8-729-663-47	TRANSISTOR 2SC1364	
Q059	=>8-729-663-47	TRANSISTOR 2SC1364	
Q060	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q061	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q063	=>8-729-663-47	TRANSISTOR 2SC1364	
Q064	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q065	=>8-729-663-47	TRANSISTOR 2SC1364	
Q066	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q067	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q068	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q069	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q070	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q071	=>8-729-663-47	TRANSISTOR 2SC1364	
Q072	=>8-729-663-47	TRANSISTOR 2SC1364	
Q073	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q074	=>8-729-663-47	TRANSISTOR 2SC1364	
Q075	=>8-729-663-47	TRANSISTOR 2SC1364	
Q076	=>8-729-663-47	TRANSISTOR 2SC1364	
Q077	=>8-729-663-47	TRANSISTOR 2SC1364	
Q078	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q079	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q080	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q081	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q082	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q083	=>8-729-663-47	TRANSISTOR 2SC1364	
Q084	=>8-729-663-47	TRANSISTOR 2SC1364	
Q085	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q086	=>8-729-603-50	TRANSISTOR 2SC403SP	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
Q087	=>8-729-663-47	TRANSISTOR	2SC1364			
Q088	=>8-729-663-47	TRANSISTOR	2SC1364			
Q089	=>8-729-384-48	TRANSISTOR	2SA844			
Q091	=>8-729-663-47	TRANSISTOR	2SC1364			
Q092	=>8-729-663-47	TRANSISTOR	2SC1364			
Q093	=>8-729-603-50	TRANSISTOR	2SC403SP			
Q094	=>8-729-663-47	TRANSISTOR	2SC1364			
Q095	=>8-729-663-47	TRANSISTOR	2SC1364			
Q096	=>8-729-384-48	TRANSISTOR	2SA844			

RESISTOR

Ref.No.	Part No.	Description				Remark
R001	1-246-446-00	CARBON	75	5%	1/4W	
R002	1-246-863-00	CARBON	43K		1/8W	
R003	1-246-446-00	CARBON	75	5%	1/4W	
R004	1-246-863-00	CARBON	43K		1/8W	
R005	1-246-485-00	CARBON	3.3K	5%	1/4W	
R006	1-246-457-00	CARBON	220	5%	1/4W	
R007	1-246-449-00	CARBON	100	5%	1/4W	
R008	1-246-795-00	CARBON	10K		1/8W	
R009	1-246-799-00	CARBON	22K		1/8W	
R010	1-246-783-00	CARBON	1K		1/8W	
R011	1-246-783-00	CARBON	1K		1/8W	
R012	1-246-783-00	CARBON	1K		1/8W	
R013	1-246-847-00	CARBON	2K		1/8W	
R014	1-246-787-00	CARBON	2.2K		1/8W	
R015	1-246-796-00	CARBON	12K		1/8W	
R016	1-246-799-00	CARBON	22K		1/8W	
R017	1-246-791-00	CARBON	4.7K		1/8W	
R018	1-246-449-00	CARBON	100	5%	1/4W	
R019	1-246-783-00	CARBON	1K		1/8W	
R020	1-246-782-00	CARBON	820		1/8W	
R021	1-246-791-00	CARBON	4.7K		1/8W	
R022	1-246-791-00	CARBON	4.7K		1/8W	
R023	1-246-495-00	CARBON	8.2K	5%	1/4W	
R024	1-246-783-00	CARBON	1K		1/8W	
R025	1-246-845-00	CARBON	1.3K		1/8W	
R026	1-246-791-00	CARBON	4.7K	5%	1/8W	
R027	1-246-797-00	CARBON	15K		1/8W	
R028	1-246-783-00	CARBON	1K	5%	1/8W	
R029	1-246-843-00	CARBON	910		1/8W	
R030	1-246-786-00	CARBON	1.8K		1/8W	
R031	1-246-799-00	CARBON	22K		1/8W	
R032	1-246-795-00	CARBON	10K		1/8W	
R033	1-246-791-00	CARBON	4.7K		1/8W	
R034	1-246-449-00	CARBON	100	5%	1/4W	
R035	1-246-844-00	CARBON	1.1K		1/8W	
R036	1-246-782-00	CARBON	820		1/8W	
R037	1-246-824-00	CARBON	24		1/8W	
R038	1-246-777-00	CARBON	330		1/8W	
R039	1-246-785-00	CARBON	1.5K		1/8W	
R040	1-246-847-00	CARBON	2K		1/8W	
R041	1-246-791-00	CARBON	4.7K		1/8W	
R042	1-246-786-00	CARBON	1.8K		1/8W	
R043	1-246-846-00	CARBON	1.6K		1/8W	
R044	1-246-776-00	CARBON	270		1/8W	
R045	1-246-773-00	CARBON	150		1/8W	
R046	1-246-789-00	CARBON	3.3K		1/8W	
R047	1-246-778-00	CARBON	390		1/8W	
R048	1-246-787-00	CARBON	2.2K		1/8W	
R049	1-246-799-00	CARBON	22K		1/8W	
R050	1-246-799-00	CARBON	22K		1/8W	
R051	1-246-782-00	CARBON	820		1/8W	
R052	1-246-777-00	CARBON	330		1/8W	
R053	1-246-834-00	CARBON	160		1/8W	
R054	1-246-795-00	CARBON	10K		1/8W	
R055	1-246-783-00	CARBON	1K		1/8W	
R056	1-246-784-00	CARBON	1.2K		1/8W	
R057	1-246-795-00	CARBON	10K		1/8W	
R058	1-246-862-00	CARBON	36K		1/8W	
R059	1-246-854-00	CARBON	7.5K		1/8W	
R060	1-246-788-00	CARBON	2.7K		1/8W	
R061	1-246-846-00	CARBON	1.6K		1/8W	
R062	1-246-449-00	CARBON	100	5%	1/4W	
R063	1-246-795-00	CARBON	10K		1/8W	
R064	1-246-795-00	CARBON	10K		1/8W	
R065	1-246-786-00	CARBON	1.8K		1/8W	
R066	1-246-797-00	CARBON	15K		1/8W	
R067	1-246-856-00	CARBON	11K		1/8W	
R068	1-246-780-00	CARBON	560		1/8W	
R069	1-246-808-00	CARBON	120K		1/8W	
R070	1-246-804-00	CARBON	56K		1/8W	
R071	1-246-799-00	CARBON	22K		1/8W	
R072	1-246-799-00	CARBON	22K		1/8W	
R073	1-246-808-00	CARBON	120K		1/8W	
R074	1-246-801-00	CARBON	33K		1/8W	
R075	1-246-795-00	CARBON	10K		1/8W	
R076	1-246-473-00	CARBON	1K	5%	1/4W	
R077	1-246-449-00	CARBON	100	5%	1/4W	
R078	1-246-803-00	CARBON	47K		1/8W	
R079	1-246-795-00	CARBON	10K		1/8W	
R080	1-246-803-00	CARBON	47K		1/8W	
R081	1-246-493-00	CARBON	6.8K	5%	1/4W	
R082	1-246-793-00	CARBON	6.8K		1/8W	
R083	1-246-795-00	CARBON	10K		1/8W	
R084	1-246-787-00	CARBON	2.2K		1/8W	
R085	1-246-842-00	CARBON	750		1/8W	
R086	1-246-839-00	CARBON	430		1/8W	
R087	1-246-794-00	CARBON	8.2K		1/8W	
R088	1-246-798-00	CARBON	18K		1/8W	
R089	1-246-794-00	CARBON	8.2K		1/8W	
R090	1-211-427-00	CARBON	100	5%	1/8W	F
R091	1-246-773-00	CARBON	150		1/8W	
R092	1-246-801-00	CARBON	33K		1/8W	
R093	1-246-795-00	CARBON	10K		1/8W	
R094	1-246-847-00	CARBON	2K		1/8W	
R095	1-246-782-00	CARBON	820		1/8W	

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description				Remark
R096	1-246-811-00	CARBON	220K		1/8W	
R097	1-246-851-00	CARBON	4.3K	5%	1/8W	
R098	1-246-449-00	CARBON	100	5%	1/4W	
R099	1-246-787-00	CARBON	2.2K		1/8W	
R100	1-246-801-00	CARBON	33K		1/8W	
R101	1-246-789-00	CARBON	3.3K		1/8W	
R102	1-246-777-00	CARBON	330		1/8W	
R103	1-246-785-00	CARBON	1.5K		1/8W	
R104	1-246-852-00	CARBON	5.1K		1/8W	
R105	1-244-860-00	CARBON	300	5%	1/2W	
R106	1-246-445-00	CARBON	68	5%	1/4W	
R107	1-246-791-00	CARBON	4.7K		1/8W	
R108	1-246-795-00	CARBON	10K		1/8W	
R109	1-246-470-00	CARBON	750	5%	1/4W	
R110	1-246-801-00	CARBON	33K		1/8W	
R111	1-244-853-00	CARBON	150	5%	1/2W	
R112	1-244-853-00	CARBON	150	5%	1/2W	
R113	1-246-789-00	CARBON	3.3K		1/8W	
R114	1-246-784-00	CARBON	1.2K		1/8W	
R116	1-246-865-00	CARBON	62K		1/8W	
R117	1-246-790-00	CARBON	3.9K		1/8W	
R118	1-246-794-00	CARBON	8.2K		1/8W	
R119	1-246-854-00	CARBON	7.5K		1/8W	
R120	1-246-854-00	CARBON	7.5K		1/8W	
R121	1-246-798-00	CARBON	18K		1/8W	
R122	1-246-784-00	CARBON	1.2K		1/8W	
R123	1-246-848-00	CARBON	2.4K		1/8W	
R124	1-246-785-00	CARBON	1.5K		1/8W	
R125	1-246-799-00	CARBON	22K		1/8W	
R126	1-247-058-00	CARBON	510K		1/8W	
R127	1-246-803-00	CARBON	47K		1/8W	
R128	1-246-799-00	CARBON	22K	5%	1/8W	
R129	1-246-809-00	CARBON	150K		1/8W	
R130	1-246-807-00	CARBON	100K		1/8W	
R131	1-246-799-00	CARBON	22K		1/8W	
R132	1-246-803-00	CARBON	47K		1/8W	
R133	1-246-801-00	CARBON	33K		1/8W	
R134	1-246-795-00	CARBON	10K		1/8W	
R135	1-246-795-00	CARBON	10K		1/8W	
R136	1-246-497-00	CARBON	10K	5%	1/4W	
R137	1-246-801-00	CARBON	33K		1/8W	
R138	1-246-449-00	CARBON	100	5%	1/4W	
R139	1-246-801-00	CARBON	33K		1/8W	
R140	1-246-783-00	CARBON	1K		1/8W	
R141	1-246-778-00	CARBON	390		1/8W	
R142	1-246-778-00	CARBON	390		1/8W	
R143	1-246-801-00	CARBON	33K		1/8W	
R144	1-246-801-00	CARBON	33K		1/8W	
R145	1-246-783-00	CARBON	1K		1/8W	
R146	1-246-771-00	CARBON	100		1/8W	
R147	1-246-782-00	CARBON	820		1/8W	
R148	1-246-786-00	CARBON	1.8K		1/8W	
R149	1-246-786-00	CARBON	1.8K		1/8W	

Ref.No.	Part No.	Description				Remark
R150	1-246-789-00	CARBON	3.3K		1/8W	
R151	1-246-780-00	CARBON	560		1/8W	
R152	1-246-780-00	CARBON	560		1/8W	
R154	1-246-841-00	CARBON	620		1/8W	
R155	1-246-789-00	CARBON	3.3K		1/8W	
R156	1-246-457-00	CARBON	220	5%	1/4W	
R157	1-246-799-00	CARBON	22K		1/8W	
R158	1-246-856-00	CARBON	11K		1/8W	
R159	1-246-786-00	CARBON	1.8K		1/8W	
R160	1-246-776-00	CARBON	270		1/8W	
R161	1-246-449-00	CARBON	100	5%	1/4W	
R162	1-246-801-00	CARBON	33K		1/8W	
R163	1-246-795-00	CARBON	10K		1/8W	
R164	1-246-855-00	CARBON	9.1K		1/8W	
R165	1-246-799-00	CARBON	22K		1/8W	
R166	1-246-789-00	CARBON	3.3K		1/8W	
R167	1-246-836-00	CARBON	240		1/8W	
R168	1-246-776-00	CARBON	270		1/8W	
R170	1-246-786-00	CARBON	1.8K		1/8W	
R171	1-246-846-00	CARBON	1.6K		1/8W	
R172	1-246-473-00	CARBON	1K	5%	1/4W	
R176	1-246-782-00	CARBON	820		1/8W	
R177	1-246-778-00	CARBON	390		1/8W	
R178	1-246-777-00	CARBON	330		1/8W	
R179	1-246-799-00	CARBON	22K		1/8W	
R180	1-246-799-00	CARBON	22K		1/8W	
R181	1-246-787-00	CARBON	2.2K		1/8W	
R182	1-246-834-00	CARBON	160		1/8W	
R183	1-246-783-00	CARBON	1K		1/8W	
R184	1-246-795-00	CARBON	10K		1/8W	
R185	1-246-793-00	CARBON	6.8K		1/8W	
R186	1-246-797-00	CARBON	15K		1/8W	
R187	1-246-785-00	CARBON	1.5K		1/8W	
R188	1-246-799-00	CARBON	22K		1/8W	
R189	1-246-785-00	CARBON	1.5K		1/8W	
R190	1-246-782-00	CARBON	820		1/8W	
R191	1-246-785-00	CARBON	1.5K		1/8W	
R192	1-246-780-00	CARBON	560		1/8W	
R193	1-246-783-00	CARBON	1K		1/8W	
R194	1-246-783-00	CARBON	1K		1/8W	
R195	1-246-783-00	CARBON	1K		1/8W	
R196	1-246-783-00	CARBON	1K		1/8W	
R197	1-246-783-00	CARBON	1K		1/8W	
R198	1-246-783-00	CARBON	1K		1/8W	
R199	1-246-789-00	CARBON	3.3K		1/8W	
R200	1-246-799-00	CARBON	22K		1/8W	
R201	1-246-799-00	CARBON	22K		1/8W	
R202	1-246-449-00	CARBON	100	5%	1/4W	
R205	1-246-796-00	CARBON	12K		1/8W	
R206	1-246-852-00	CARBON	5.1K		1/8W	
R207	1-246-792-00	CARBON	5.6K		1/8W	
R209	1-246-784-00	CARBON	1.2K		1/8W	
R210	1-246-811-00	CARBON	220K		1/8W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
R212	1-246-787-00	CARBON	2.2K		1/8W	
R213	1-246-783-00	CARBON	1K		1/8W	
R214	1-246-449-00	CARBON	100	5%	1/4W	
R215	1-246-791-00	CARBON	4.7K		1/8W	
R216	1-246-783-00	CARBON	1K		1/8W	
R217	1-246-801-00	CARBON	33K		1/8W	
R218	1-246-799-00	CARBON	22K		1/8W	
R219	1-246-801-00	CARBON	33K		1/8W	
R220	1-246-799-00	CARBON	22K		1/8W	
R221	1-246-799-00	CARBON	22K		1/8W	
R222	1-246-811-00	CARBON	220K		1/8W	
R223	1-246-800-00	CARBON	27K		1/8W	
R224	1-246-792-00	CARBON	5.6K		1/8W	
R225	1-246-801-00	CARBON	33K		1/8W	
R226	1-246-775-00	CARBON	220		1/8W	
R227	1-246-791-00	CARBON	4.7K		1/8W	
R228	1-246-807-00	CARBON	100K		1/8W	
R229	1-246-804-00	CARBON	56K		1/8W	
R230	1-246-798-00	CARBON	18K		1/8W	
R231	1-246-861-00	CARBON	30K		1/8W	
R232	1-246-781-00	CARBON	680		1/8W	
R233	1-246-783-00	CARBON	1K		1/8W	
R234	1-246-783-00	CARBON	1K		1/8W	
R235	1-246-840-00	CARBON	510		1/8W	
R236	1-246-789-00	CARBON	3.3K		1/8W	
R237	1-246-795-00	CARBON	10K		1/8W	
R238	1-246-842-00	CARBON	750		1/8W	
R239	1-246-786-00	CARBON	1.8K		1/8W	
R240	1-246-791-00	CARBON	4.7K		1/8W	
R241	1-246-783-00	CARBON	1K		1/8W	
R242	1-246-787-00	CARBON	2.2K		1/8W	
R243	1-246-783-00	CARBON	1K		1/8W	
R244	1-246-801-00	CARBON	33K		1/8W	
R245	1-246-795-00	CARBON	10K		1/8W	
R248	1-246-795-00	CARBON	10K		1/8W	
R249	1-246-859-00	CARBON	20K		1/8W	
R250	1-246-840-00	CARBON	510		1/8W	
R251	1-246-770-00	CARBON	82		1/8W	
R252	1-246-436-00	CARBON	30	5%	1/4W	
R253	1-246-795-00	CARBON	10K		1/8W	
R254	1-246-801-00	CARBON	33K		1/8W	
R255	1-246-795-00	CARBON	10K		1/8W	
R256	1-246-811-00	CARBON	220K		1/8W	
R257	1-246-811-00	CARBON	220K		1/8W	
R258	1-246-791-00	CARBON	4.7K		1/8W	
R259	1-246-793-00	CARBON	6.8K		1/8W	
R260	1-246-799-00	CARBON	22K		1/8W	
R261	1-246-778-00	CARBON	390		1/8W	
R262	1-246-778-00	CARBON	390		1/8W	
R263	1-246-778-00	CARBON	390		1/8W	
R264	1-246-799-00	CARBON	22K		1/8W	
R265	1-246-791-00	CARBON	4.7K		1/8W	
R266	1-246-787-00	CARBON	2.2K		1/8W	

Ref.No.	Part No.	Description				Remark
R267	1-246-778-00	CARBON	390		1/8W	
R268	1-246-778-00	CARBON	390		1/8W	
R269	1-246-778-00	CARBON	390		1/8W	
R270	1-246-778-00	CARBON	390		1/8W	
R271	1-246-778-00	CARBON	390		1/8W	
R272	1-246-787-00	CARBON	2.2K		1/8W	
R273	1-246-795-00	CARBON	10K		1/8W	
R274	1-246-783-00	CARBON	1K		1/8W	
R275	1-246-795-00	CARBON	10K		1/8W	
R276	1-246-801-00	CARBON	33K		1/8W	
R277	1-246-795-00	CARBON	10K		1/8W	
R278	1-246-795-00	CARBON	10K		1/8W	
R279	1-246-803-00	CARBON	47K		1/8W	
R280	1-246-778-00	CARBON	390		1/8W	
R281	1-246-784-00	CARBON	1.2K		1/8W	
R282	1-246-795-00	CARBON	10K		1/8W	
R283	1-246-795-00	CARBON	10K		1/8W	
R284	1-246-801-00	CARBON	33K		1/8W	
R285	1-246-795-00	CARBON	10K		1/8W	
R286	1-246-801-00	CARBON	33K		1/8W	
R287	1-246-795-00	CARBON	10K		1/8W	
R288	1-246-795-00	CARBON	10K		1/8W	
R289	1-246-801-00	CARBON	33K		1/8W	
R290	1-246-795-00	CARBON	10K		1/8W	
R291	1-246-795-00	CARBON	10K		1/8W	
R292	1-246-801-00	CARBON	33K		1/8W	
R293	1-246-795-00	CARBON	10K		1/8W	
R294	1-246-801-00	CARBON	33K		1/8W	
R295	1-246-801-00	CARBON	33K		1/8W	
R296	1-246-791-00	CARBON	4.7K		1/8W	
R297	1-246-783-00	CARBON	1K		1/8W	
R298	1-246-783-00	CARBON	1K		1/8W	
R300	1-246-801-00	CARBON	33K		1/8W	
R301	1-246-791-00	CARBON	4.7K		1/8W	
R302	1-246-801-00	CARBON	33K		1/8W	
R303	1-246-791-00	CARBON	4.7K		1/8W	
R304	1-246-799-00	CARBON	22K		1/8W	
R305	1-246-836-00	CARBON	240		1/8W	
R306	1-246-836-00	CARBON	240		1/8W	
R307	1-246-787-00	CARBON	2.2K		1/8W	
R308	1-246-805-00	CARBON	68K	5%	1/8W	
R309	1-246-787-00	CARBON	2.2K		1/8W	
R310	1-246-803-00	CARBON	47K		1/8W	
R311	1-246-846-00	CARBON	1.6K		1/8W	
R312	1-246-795-00	CARBON	10K		1/8W	
R313	1-246-776-00	CARBON	270		1/8W	
R314	1-246-849-00	CARBON	3K		1/8W	
R315	1-246-792-00	CARBON	5.6K		1/8W	
R316	1-246-776-00	CARBON	270		1/8W	
R317	1-246-779-00	CARBON	470		1/8W	
R318	1-246-766-00	CARBON	39		1/8W	
R319	1-246-795-00	CARBON	10K		1/8W	
R320	1-246-801-00	CARBON	33K		1/8W	

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description				Remark
R321	1-246-795-00	CARBON	10K		1/8W	
R322	1-246-445-00	CARBON	68	5%	1/4W	
R324	1-246-770-00	CARBON	82		1/8W	
R325	1-246-783-00	CARBON	1K		1/8W	
R326	1-246-801-00	CARBON	33K		1/8W	
R327	1-246-801-00	CARBON	33K		1/8W	
R328	1-246-787-00	CARBON	2.2K		1/8W	
R329	1-246-799-00	CARBON	22K		1/8W	
R330	1-246-803-00	CARBON	47K		1/8W	
R331	1-246-779-00	CARBON	470		1/8W	
R332	1-246-789-00	CARBON	3.3K		1/8W	
R333	1-246-801-00	CARBON	33K		1/8W	
R334	1-246-795-00	CARBON	10K		1/8W	
R335	1-246-787-00	CARBON	2.2K		1/8W	
R336	1-246-790-00	CARBON	3.9K		1/8W	
R337	1-246-790-00	CARBON	3.9K		1/8W	
R338	1-246-807-00	CARBON	100K		1/8W	
R339	1-246-803-00	CARBON	47K		1/8W	
R340	1-246-795-00	CARBON	10K		1/8W	
R341	1-246-787-00	CARBON	2.2K		1/8W	
R342	1-210-829-00	COMPOSITION	4.7M	5%	1/4W	
R343	1-246-779-00	CARBON	470		1/8W	
R344	1-246-783-00	CARBON	1K		1/8W	
R345	1-246-785-00	CARBON	1.5K		1/8W	
R346	1-246-799-00	CARBON	22K		1/8W	
R347	1-246-783-00	CARBON	1K		1/8W	
R348	1-246-801-00	CARBON	33K		1/8W	
R349	1-246-789-00	CARBON	3.3K		1/8W	
R350	1-246-782-00	CARBON	820		1/8W	
R353	1-246-795-00	CARBON	10K		1/8W	
R355	1-247-053-00	CARBON	1M		1/8W	
R357	1-246-491-00	CARBON	5.6K	5%	1/4W	
R360	1-246-783-00	CARBON	1K		1/8W	
R361	1-246-779-00	CARBON	470		1/8W	
R362	1-246-457-00	CARBON	220	5%	1/4W	
R363	1-246-490-00	CARBON	5.1K	5%	1/4W	
R364	1-246-449-00	CARBON	100	5%	1/4W	

VARIABLE RESISTOR

Ref.No.	Part No.	Description		Remark
RV001	1-224-252-XX	RES, ADJ, SOLID	10K	
RV002	1-224-250-XX	RES, ADJ, SOLID	2.2K	
RV003	1-224-248-XX	RES, ADJ, SOLID	470	
RV004	1-224-249-XX	RES, ADJ, SOLID	1K	
RV005	1-224-254-XX	RES, ADJ, SOLID	47K	
RV006	1-224-251-XX	RES, ADJ, SOLID	4.7K	
RV007	1-224-250-XX	RES, ADJ, SOLID	2.2K	
RV008	1-224-250-XX	RES, ADJ, SOLID	2.2K	
RV009	1-224-250-XX	RES, ADJ, SOLID	2.2K	
RV010	1-224-249-XX	RES, ADJ, SOLID	1K	
RV011	1-224-251-XX	RES, ADJ, SOLID	4.7K	
RV012	1-224-253-XX	RES, ADJ, SOLID	22K	
RV013	1-224-252-XX	RES, ADJ, SOLID	10K	
RV014	1-224-249-XX	RES, ADJ, SOLID	1K	
RV015	1-224-250-XX	RES, ADJ, SOLID	2.2K	
RV016	1-224-248-XX	RES, ADJ, SOLID	470	
RV017	1-224-248-XX	RES, ADJ, SOLID	470	
RV018	1-224-250-XX	RES, ADJ, SOLID	2.2K	
RV019	1-224-255-XX	RES, ADJ, SOLID	100K	
RV020	1-226-497-00	RES, VAR, CARBON	100K	
RV021	1-224-229-XX	RES, ADJ, SOLID	1K	

SWITCH

Ref.No.	Part No.	Description	Remark
SW001	1-552-820-00	SWITCH, SLIDE	

TRANSFORMER

Ref.No.	Part No.	Description	Remark
T001	1-426-027-00	COIL, EQT	
T002	1-409-321-00	COIL, TRAP	
T003	1-409-320-00	COIL, TRAP	
T004	1-425-981-00	COIL, REC C BPT	
T005	1-425-785-21	TRANSFORMER, BURST AMP(BAT)	
T006	1-231-391-00	COIL, BPF	

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♠:A-6711-225-A DC-1 BOARD, COMPLETE
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CAPACITOR

Ref.No.	Part No.	Description				Remark
C001	1-101-004-00	CERAMIC	0.01MF		50V	
C002	1-101-004-00	CERAMIC	0.01MF		50V	
C003	1-101-004-00	CERAMIC	0.01MF		50V	
C004	1-102-954-00	CERAMIC	10PF	10%	50V	
C005	1-101-004-00	CERAMIC	0.01MF		50V	
C006	1-101-004-00	CERAMIC	0.01MF		50V	
C007	1-101-004-00	CERAMIC	0.01MF		50V	
C008	1-101-004-00	CERAMIC	0.01MF		50V	
C009	1-101-004-00	CERAMIC	0.01MF		50V	
C010	1-101-004-00	CERAMIC	0.01MF		50V	
C011	1-102-965-00	CERAMIC	39PF	10%	50V	
C012	1-108-359-00	MYLAR	0.027MF	10%	50V	
C013	1-123-356-00	ELECT	10MF	20%	16V	
C014	1-108-589-00	MYLAR	0.027MF	5%	50V	
C015	1-123-332-00	ELECT	47MF	20%	16V	
C016	1-101-006-00	CERAMIC	0.047MF		50V	
C017	1-123-330-00	ELECT	22MF	20%	16V	
C018	1-123-330-00	ELECT	22MF	20%	16V	
C019	1-123-330-00	ELECT	22MF	20%	16V	
C020	1-123-330-00	ELECT	22MF	20%	16V	
C021	1-123-356-00	ELECT	10MF	20%	16V	
C022	1-123-318-00	ELECT	33MF	20%	16V	
C023	1-123-356-00	ELECT	10MF	20%	16V	
C024	1-108-579-00	MYLAR	0.01MF	5%	50V	
C025	1-108-555-00	MYLAR	0.001MF	5%	50V	
C026	1-108-579-00	MYLAR	0.01MF	5%	50V	
C027	1-108-595-00	MYLAR	0.047MF	5%	50V	
C028	1-123-356-00	ELECT	10MF	20%	16V	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
C029	1-123-333-00	ELECT	100MF	20%	16V
C030	1-108-583-00	MYLAR	0.015MF	5%	50V
C031	1-108-559-00	MYLAR	0.0015MF	5%	50V
C032	1-108-583-00	MYLAR	0.015MF	5%	50V
C033	1-108-595-00	MYLAR	0.047MF	5%	50V
C034	1-123-328-00	ELECT	4.7MF	20%	25V

FILTER

Ref.No.	Part No.	Description
CF001	1-527-260-00	FILTER, CERAMIC (4.5MHZ)

CONNECTOR

Ref.No.	Part No.	Description
CN001⚠:	1-508-850-00	PIN, CONNECTOR

DIODE

Ref.No.	Part No.	Description
D001	8-719-815-55	DIODE 1S1555
D002	8-719-815-55	DIODE 1S1555
D003	8-719-815-55	DIODE 1S1555
D004	8-719-815-55	DIODE 1S1555
D005	8-719-815-55	DIODE 1S1555
D006	8-719-815-55	DIODE 1S1555
D007	8-719-901-33	DIODE 1SS133
D008	8-719-901-33	DIODE 1SS133
D009	8-719-901-33	DIODE 1SS133
D010	8-719-901-33	DIODE 1SS133
D011	8-719-901-33	DIODE 1SS133
D012	8-719-901-33	DIODE 1SS133
D013	8-719-901-33	DIODE 1SS133

IC

Ref.No.	Part No.	Description
IC001	8-751-300-00	IC CX-130
IC002	8-759-240-01	IC TC4001BP

COIL

Ref.No.	Part No.	Description
L001	1-407-488-00	MICRO INDUCTOR 470UH
L002	1-407-703-00	MICRO INDUCTOR 68UH
L003	1-407-499-00	MICRO INDUCTOR 3.9MMH

VARIABLE COIL

Ref.No.	Part No.	Description
LV001	1-407-291-00	MICRO INDUCTOR 15MMH
	1-408-695-00	VARIABLE INDUCTOR
LV002	1-407-239-00	MICRO INDUCTOR 3.3MMH
	1-408-691-00	VARIABLE INDUCTOR
LV003	1-407-239-00	MICRO INDUCTOR 3.3MMH
	1-408-691-00	VARIABLE INDUCTOR
LV004	1-407-288-00	MICRO INDUCTOR 4.7MMH
	1-408-692-00	VARIABLE INDUCTOR
LV005	1-407-288-00	MICRO INDUCTOR 4.7MMH
	1-408-692-00	VARIABLE INDUCTOR

TRANSISTOR

Ref.No.	Part No.	Description
Q001	=>8-729-603-50	TRANSISTOR 2SC403SP
Q002	=>8-729-603-50	TRANSISTOR 2SC403SP
Q003	=>8-729-603-50	TRANSISTOR 2SC403SP
Q004	=>8-729-603-50	TRANSISTOR 2SC403SP
Q005	=>8-729-603-50	TRANSISTOR 2SC403SP
Q006	=>8-729-603-50	TRANSISTOR 2SC403SP
Q007	=>8-729-606-33	TRANSISTOR 2SC2603-F
Q008	=>8-729-606-33	TRANSISTOR 2SC2603-F
Q009	=>8-729-612-77	TRANSISTOR 2SA1027R
Q010	=>8-729-612-77	TRANSISTOR 2SA1027R
Q011	=>8-729-603-50	TRANSISTOR 2SC403SP
Q012	=>8-729-603-50	TRANSISTOR 2SC403SP
Q013	=>8-729-612-77	TRANSISTOR 2SA1027R
Q014	=>8-729-612-77	TRANSISTOR 2SA1027R
Q015	=>8-729-606-33	TRANSISTOR 2SC2603-F

RESISTOR

Ref.No.	Part No.	Description			Remark
R001	1-246-497-00	CARBON	10K	5%	1/4W
R002	1-246-497-00	CARBON	10K	5%	1/4W
R003	1-246-783-00	CARBON	1K	5%	1/8W
R004	1-246-513-00	CARBON	47K	5%	1/4W
R005	1-246-497-00	CARBON	10K	5%	1/4W
R006	1-246-840-00	CARBON	510		1/8W
R007	1-246-840-00	CARBON	510		1/8W
R008	1-246-489-00	CARBON	4.7K	5%	1/4W
R009	1-246-503-00	CARBON	18K	5%	1/4W
R010	1-246-507-00	CARBON	27K	5%	1/4W
R011	1-246-783-00	CARBON	1K		1/8W
R012	1-246-779-00	CARBON	470		1/8W
R013	1-246-782-00	CARBON	820		1/8W
R014	1-246-511-00	CARBON	39K	5%	1/4W
R015	1-246-497-00	CARBON	10K	5%	1/4W
R016	1-246-489-00	CARBON	4.7K	5%	1/4W
R017	1-246-775-00	CARBON	220		1/8W
R018	1-246-525-00	CARBON	150K	5%	1/4W
R019	1-246-521-00	CARBON	100K	5%	1/4W
R020	1-246-507-00	CARBON	27K	5%	1/4W
R021	1-246-481-00	CARBON	2.2K	5%	1/4W
R022	1-246-485-00	CARBON	3.3K	5%	1/4W
R023	1-246-489-00	CARBON	4.7K	5%	1/4W
R024	1-246-771-00	CARBON	100		1/8W
R025	1-246-785-00	CARBON	1.5K		1/8W
R026	1-246-509-00	CARBON	33K	5%	1/4W
R027	1-246-499-00	CARBON	12K	5%	1/4W
R028	1-246-497-00	CARBON	10K	5%	1/4W
R029	1-246-480-00	CARBON	2K	5%	1/4W
R030	1-246-480-00	CARBON	2K	5%	1/4W
R031	1-246-497-00	CARBON	10K	5%	1/4W
R032	1-246-489-00	CARBON	4.7K	5%	1/4W
R033	1-246-510-00	CARBON	36K	5%	1/4W
R034	1-246-497-00	CARBON	10K	5%	1/4W
R035	1-246-497-00	CARBON	10K	5%	1/4W
R036	1-246-780-00	CARBON	560		1/8W
R037	1-246-537-00	CARBON	470K	5%	1/4W
R038	1-246-509-00	CARBON	33K	5%	1/4W

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
R039	1-246-497-00	CARBON	10K	5%	1/4W	
R040	1-246-509-00	CARBON	33K	5%	1/4W	
R041	1-246-497-00	CARBON	10K	5%	1/4W	
R042	1-246-842-00	CARBON	750		1/8W	
R043	1-246-537-00	CARBON	470K	5%	1/4W	
R044	1-246-509-00	CARBON	33K	5%	1/4W	
R045	1-246-497-00	CARBON	10K	5%	1/4W	
R046	1-246-513-00	CARBON	47K	5%	1/4W	
R047	1-246-513-00	CARBON	47K	5%	1/4W	
R048	1-246-795-00	CARBON	10K		1/8W	

VARIABLE RESISTOR

Ref.No.	Part No.	Description
RV001	1-224-249-XX	RES, ADJ, SOLID 1K

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♣:A-6711-230-A RF-2 BOARD, COMPLETE
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♣:3-659-694-00 CASE, SHIELD (B) (MAIN)
♣:3-662-311-00 LID, UPPER, SHIELD CASE (B)

CAPACITOR

Ref.No.	Part No.	Description				Remark
C001	1-123-380-00	ELECT	1MF	20%	50V	
C002	1-123-380-00	ELECT	1MF	20%	50V	
C003	1-161-494-00	CERAMIC	0.022MF	30%	25V	
C004	1-161-494-00	CERAMIC	0.022MF	30%	25V	
C005	1-101-006-00	CERAMIC	0.047MF		50V	
C006	1-101-006-00	CERAMIC	0.047MF		50V	
C007	1-161-494-00	CERAMIC	0.022MF	30%	25V	
C008	1-161-494-00	CERAMIC	0.022MF	30%	25V	
C009	1-131-371-00	TANTALUM	10MF	20%	16V	
C010	1-131-371-00	TANTALUM	10MF	20%	16V	
C011	1-161-330-51	CERAMIC	0.01MF	30%	25V	
C012	1-161-330-51	CERAMIC	0.01MF	30%	25V	
C014	1-123-381-00	ELECT	2.2MF	20%	50V	
C015	1-161-328-51	CERAMIC	0.0047MF	30%	50V	
C017	1-101-882-00	CERAMIC	51PF	5%	50V	
C018	1-101-882-00	CERAMIC	51PF	5%	50V	
C019	1-108-370-00	MYLAR	0.0027MF	10%	100V	
C020	1-161-321-00	CERAMIC	680PF	10%	50V	
C021	1-101-882-00	CERAMIC	51PF	5%	50V	
C022	1-108-370-00	MYLAR	0.0027MF	10%	100V	
C023	1-161-319-00	CERAMIC	470PF	10%	50V	
C024	1-161-330-51	CERAMIC	0.01MF	30%	25V	
C025	1-131-371-00	TANTALUM	10MF	20%	16V	
C026	1-161-317-00	CERAMIC	330PF	10%	50V	
C027	1-161-494-00	CERAMIC	0.022MF	30%	25V	
C028	1-123-318-00	ELECT	33MF	20%	16V	
C029	1-161-494-00	CERAMIC	0.022MF	30%	25V	
C030	1-161-330-51	CERAMIC	0.01MF	30%	25V	
C031	1-161-330-51	CERAMIC	0.01MF	30%	25V	
C032	1-101-005-00	CERAMIC	0.022MF		50V	
C033	1-123-318-00	ELECT	33MF	20%	16V	
C034	1-123-379-00	ELECT	0.47MF	20%	50V	
C035	1-161-330-51	CERAMIC	0.01MF	30%	25V	
C036	1-161-851-00	CERAMIC	0.047MF		50V	
C037	1-123-318-00	ELECT	33MF	20%	16V	
C038	1-102-953-00	CERAMIC	18PF	5%	50V	

CONNECTOR

Ref.No.	Part No.	Description
CN001♣:	1-508-744-00	PIN, CONNECTOR 10P
CN002♣:	1-508-797-00	PIN, CONNECTOR 4P
CN003♣:	1-508-845-00	PIN, CONNECTOR 6P
CN004♣:	1-508-847-00	PIN, CONNECTOR 4P

DIODE

Ref.No.	Part No.	Description
D001	8-719-815-55	DIODE 1S1555
D002	8-719-815-55	DIODE 1S1555
D003	8-719-815-55	DIODE 1S1555
D004	8-719-815-55	DIODE 1S1555
D005	8-719-815-55	DIODE 1S1555
D006	8-719-815-55	DIODE 1S1555
D007	8-719-815-55	DIODE 1S1555
D008	8-719-815-55	DIODE 1S1555
D009	8-719-815-55	DIODE 1S1555

IC

Ref.No.	Part No.	Description
IC001	8-751-340-00	IC CX-134A

COIL

Ref.No.	Part No.	Description
L001	1-408-029-00	MICRO INDUCTOR 0.56UH
L002	1-408-029-00	MICRO INDUCTOR 0.56UH
L003	1-407-695-00	MICRO INDUCTOR 15UH
L004	1-407-695-00	MICRO INDUCTOR 15UH
L005	1-408-158-00	MICRO INDUCTOR 6.8MMH
L006	1-408-158-00	MICRO INDUCTOR 6.8MMH
L007	1-407-704-00	MICRO INDUCTOR 82UH
L008	1-407-496-00	MICRO INDUCTOR 2.2MMH
L009	1-407-717-00	MICRO INDUCTOR 1MMH
L010	1-407-693-00	MICRO INDUCTOR 10UH

VARIABLE COIL

Ref.No.	Part No.	Description
LV001	1-407-286-00	MICRO INDUCTOR 2.2MMH
	1-408-690-00	VARIABLE INDUCTOR

TRANSISTOR

Ref.No.	Part No.	Description
Q001	=>8-729-663-47	TRANSISTOR 2SC1364
Q002	=>8-729-663-47	TRANSISTOR 2SC1364
Q003	=>8-765-422-00	TRANSISTOR 2SK152-2
Q004	=>8-765-422-00	TRANSISTOR 2SK152-2
Q005	=>8-729-663-47	TRANSISTOR 2SC1364
Q006	=>8-729-663-47	TRANSISTOR 2SC1364
Q007	=>8-729-663-47	TRANSISTOR 2SC1364
Q008	=>8-729-603-50	TRANSISTOR 2SC403SP
Q009	=>8-729-663-47	TRANSISTOR 2SC1364
Q010	8-729-384-48	TRANSISTOR 2SA844

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
Q011	=>8-729-612-77	TRANSISTOR 2SA1027R				
Q012	=>8-729-663-47	TRANSISTOR 2SC1364				
Q013	=>8-729-603-50	TRANSISTOR 2SC403SP				

RESISTOR

Ref.No.	Part No.	Description				Remark
R001	1-246-485-00	CARBON	3.3K	5%	1/4W	
R002	1-246-485-00	CARBON	3.3K	5%	1/4W	
R003	1-246-463-00	CARBON	390	5%	1/4W	
R004	1-246-463-00	CARBON	390	5%	1/4W	
R005	1-246-497-00	CARBON	10K	5%	1/4W	
R006	1-246-497-00	CARBON	10K	5%	1/4W	
R007	1-246-468-00	CARBON	620	5%	1/4W	
R008	1-246-468-00	CARBON	620	5%	1/4W	
R009	1-246-463-00	CARBON	390	5%	1/4W	
R010	1-246-463-00	CARBON	390	5%	1/4W	
R011	1-246-497-00	CARBON	10K	5%	1/4W	
R012	1-246-497-00	CARBON	10K	5%	1/4W	
R013	1-246-451-00	CARBON	120	5%	1/4W	
R014	1-246-451-00	CARBON	120	5%	1/4W	
R015	1-246-491-00	CARBON	5.6K	5%	1/4W	
R016	1-246-457-00	CARBON	220	5%	1/4W	
R017	1-246-464-00	CARBON	430	5%	1/4W	
R018	1-246-421-00	CARBON	6.8	5%	1/4W	
R019 ⚠	1-212-855-00	FUSIBLE	8.2	5%	1/4W	F
R020	1-246-473-00	CARBON	1K	5%	1/4W	
R021	1-246-473-00	CARBON	1K	5%	1/4W	
R022	1-246-481-00	CARBON	2.2K	5%	1/4W	
R023	1-246-481-00	CARBON	2.2K	5%	1/4W	
R024	1-246-481-00	CARBON	2.2K	5%	1/4W	
R025	1-246-481-00	CARBON	2.2K	5%	1/4W	
R026	1-246-475-00	CARBON	1.2K	5%	1/4W	
R027	1-246-467-00	CARBON	560	5%	1/4W	
R028	1-246-497-00	CARBON	10K	5%	1/4W	
R029	1-246-497-00	CARBON	10K	5%	1/4W	
R030 ⚠	1-212-855-00	FUSIBLE	8.2	5%	1/4W	F
R031	1-246-509-00	CARBON	33K	5%	1/4W	
R032	1-246-489-00	CARBON	4.7K	5%	1/4W	
R033	1-246-481-00	CARBON	2.2K	5%	1/4W	
R034	1-246-463-00	CARBON	390	5%	1/4W	
R035	1-246-449-00	CARBON	100	5%	1/4W	
R036	1-246-465-00	CARBON	470	5%	1/4W	
R037	1-246-491-00	CARBON	5.6K	5%	1/4W	
R038	1-246-473-00	CARBON	1K	5%	1/4W	
R039	1-246-468-00	CARBON	620	5%	1/4W	
R040	1-246-485-00	CARBON	3.3K	5%	1/4W	
R041	1-246-502-00	CARBON	16K	5%	1/4W	
R042	1-246-473-00	CARBON	1K	5%	1/4W	
R043	1-246-469-00	CARBON	680	5%	1/4W	
R044	1-246-462-00	CARBON	360	5%	1/4W	
R045	1-246-519-00	CARBON	82K	5%	1/4W	
R046	1-246-497-00	CARBON	10K	5%	1/4W	
R047	1-246-464-00	CARBON	430	5%	1/4W	
R048	1-246-477-00	CARBON	1.5K	5%	1/4W	
R049	1-246-477-00	CARBON	1.5K	5%	1/4W	
R050	1-246-422-00	CARBON	7.5	5%	1/4W	
R051 ⚠	1-246-989-11	CARBON	82	5%	1/8W	F
R052	1-246-449-00	CARBON	100	5%	1/4W	
R053 ⚠	1-211-421-00	CARBON	39	5%	1/8W	F
R054	1-246-497-00	CARBON	10K	5%	1/4W	
R055	1-246-515-00	CARBON	56K	5%	1/4W	
R056 ⚠	1-212-855-00	FUSIBLE	8.2	5%	1/4W	F
R057	1-246-451-00	CARBON	120	5%	1/4W	
R058	1-246-491-00	CARBON	5.6K	5%	1/4W	
R059 ⚠	1-212-855-00	FUSIBLE	8.2	5%	1/4W	F

VARIABLE RESISTOR

Ref.No.	Part No.	Description	Remark
RV001	1-224-643-XX	RES, ADJ, CARBON 2.2K	
RV001	1-224-643-XX	RES, ADJ, CARBON 2.2K	
RV002	1-224-643-XX	RES, ADJ, CARBON 2.2K	
RV002	1-224-643-XX	RES, ADJ, CARBON 2.2K	
RV003	1-224-643-XX	RES, ADJ, CARBON 2.2K	
RV003	1-224-643-XX	RES, ADJ, CARBON 2.2K	
RV004	1-224-644-XX	RES, ADJ, CARBON 4.7K	
RV004	1-222-518-31	RES, ADJ, CARBON 4.7K	
RV005	1-226-819-00	RES, ADJ, CARBON 1K	
RV005	1-224-642-XX	RES, ADJ, CARBON 1K	
RV006	1-222-784-00	RES, ADJ, CARBON 3.3K	
RV006	1-222-784-00	RES, ADJ, CARBON 3.3K	

TRANSFORMER

Ref.No.	Part No.	Description	Remark
T001	1-427-455-00	TRANSFORMER, I/O PUT	
T002	1-427-455-00	TRANSFORMER, I/O PUT	

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Part No.	Description
●:A-6712-093-A	AV-1 BOARD, COMPLETE ********************
●:3-655-214-00	CLIP, CABLE
●:3-662-237-00	LID, UPPER, OS SHIELD CASE
●:3-662-241-00	LID, BOTTOM, MA SHIELD CASE
●:3-662-250-00	LID (B), BOTTOM, HA SHIELD CASE
●:3-662-286-00	CASE (MAIN), SHIELD, OS
●:3-663-233-00	LID (M), UPPER, HA SHIELD CASE
●:3-663-234-00	CASE, SHIELD (MAIN) (M), HA
●:3-663-250-00	LID, BOTTOM, OS SHIELD CASE
3-701-822-00	HOLDER, WIRE

CAPACITOR

Ref.No.	Part No.	Description				Remark
C001	1-123-332-00	ELECT	47MF	20%	16V	
C002	1-102-978-00	CERAMIC	220PF	5%	50V	
C003	1-101-004-00	CERAMIC	0.01MF		50V	
C004	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C005	1-101-004-00	CERAMIC	0.01MF		50V	
C006	1-123-308-00	ELECT	220MF	20%	10V	
C007	1-102-953-00	CERAMIC	18PF	5%	50V	
C008	1-101-006-00	CERAMIC	0.047MF		50V	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

AV-1

Ref.No.	Part No.	Description			Remark
C009	1-101-004-00	CERAMIC	0.01MF		50V
C010	1-123-332-00	ELECT	47MF	20%	16V
C011	1-101-006-00	CERAMIC	0.047MF		50V
C012	1-101-006-00	CERAMIC	0.047MF		50V
C013	1-101-006-00	CERAMIC	0.047MF		50V
C014	1-101-004-00	CERAMIC	0.01MF		50V
C015	1-102-951-00	CERAMIC	15PF	5%	50V
C016	1-101-006-00	CERAMIC	0.047MF		50V
C017	1-102-959-00	CERAMIC	22PF	5%	50V
C018	1-123-332-00	ELECT	47MF	20%	16V
C019	1-102-959-00	CERAMIC	22PF	5%	50V
C020	1-123-332-00	ELECT	47MF	20%	16V
C021	1-102-950-00	CERAMIC	13PF	5%	50V
C022	1-123-332-00	ELECT	47MF	20%	16V
C023	1-123-332-00	ELECT	47MF	20%	16V
C024	1-123-381-00	ELECT	2.2MF	20%	50V
C025	1-102-973-00	CERAMIC	100PF	5%	50V
C026	1-123-332-00	ELECT	47MF	20%	16V
C027	1-102-973-00	CERAMIC	100PF	5%	50V
C028	1-123-381-00	ELECT	2.2MF	20%	50V
C029	1-123-332-00	ELECT	47MF	20%	16V
C030	1-123-356-00	ELECT	10MF	20%	16V
C031	1-123-356-00	ELECT	10MF	20%	16V
C032	1-102-978-00	CERAMIC	220PF	5%	50V
C033	1-102-116-00	CERAMIC	680PF	10%	50V
C034	1-123-380-00	ELECT	1MF	20%	50V
C035	1-102-129-00	CERAMIC	0.01MF	10%	50V
C036	1-101-006-00	CERAMIC	0.047MF		50V
C037	1-123-332-00	ELECT	47MF	20%	16V
C038	1-102-824-00	CERAMIC	430PF	5%	50V
C039	1-102-824-00	CERAMIC	430PF	5%	50V
C040	1-102-978-00	CERAMIC	220PF	5%	50V
C041	1-123-328-00	ELECT	4.7MF	20%	25V
C042	1-123-328-00	ELECT	4.7MF	20%	25V
C043	1-102-973-00	CERAMIC	100PF	5%	50V
C044	1-123-328-00	ELECT	4.7MF	20%	25V
C045	1-102-129-00	CERAMIC	0.01MF	10%	50V
C046	1-101-006-00	CERAMIC	0.047MF		50V
C047	1-123-356-00	ELECT	10MF	20%	16V
C048	1-123-380-00	ELECT	1MF	20%	50V
C049	1-102-978-00	CERAMIC	220PF	5%	50V
C050	1-108-373-00	MYLAR	0.0047MF	10%	100V
C051	1-123-380-00	ELECT	1MF	20%	50V
C052	1-102-116-00	CERAMIC	680PF	10%	50V
C053	1-102-978-00	CERAMIC	220PF	5%	50V
C054	1-123-356-00	ELECT	10MF	20%	16V
C055	1-102-129-00	CERAMIC	0.01MF	10%	50V
C056	1-101-006-00	CERAMIC	0.047MF		50V
C057	1-123-332-00	ELECT	47MF	20%	16V
C058	1-102-824-00	CERAMIC	430PF	5%	50V
C059	1-102-824-00	CERAMIC	430PF	5%	50V
C060	1-102-978-00	CERAMIC	220PF	5%	50V
C061	1-101-361-00	CERAMIC	150PF	5%	50V
C062	1-101-361-00	CERAMIC	150PF	5%	50V
C063	1-102-961-00	CERAMIC	27PF	5%	50V
C064	1-102-961-00	CERAMIC	27PF	5%	50V
C065	1-101-004-00	CERAMIC	0.01MF		50V
C066	1-101-004-00	CERAMIC	0.01MF		50V
C067	1-101-004-00	CERAMIC	0.01MF		50V
C069	1-101-004-00	CERAMIC	0.01MF		50V
C070	1-101-004-00	CERAMIC	0.01MF		50V
C071	1-101-004-00	CERAMIC	0.01MF		50V
C072	1-108-251-00	MYLAR	0.1MF	10%	50V
C073	1-102-820-00	CERAMIC	330PF	5%	50V
C074	1-101-006-00	CERAMIC	0.047MF		50V
C075	1-123-332-00	ELECT	47MF	20%	16V
C076	1-101-003-00	CERAMIC	0.0047MF		50V
C077	1-123-380-00	ELECT	1MF	20%	50V
C078	1-102-516-00	CERAMIC	27PF	5%	50V
C079	1-101-001-00	CERAMIC	0.001MF		50V
C080	1-101-004-00	CERAMIC	0.01MF		50V
C081	1-123-380-00	ELECT	1MF	20%	50V
C082	1-102-851-00	CERAMIC	15PF	5%	50V
C083	1-123-380-00	ELECT	1MF	20%	50V
C084	1-108-378-00	MYLAR	0.012MF	10%	100V
C085	1-108-378-00	MYLAR	0.012MF	10%	100V
C088	1-102-852-00	CERAMIC	47PF	5%	50V
C089	1-101-004-00	CERAMIC	0.01MF		50V
C090	1-101-001-00	CERAMIC	0.001MF		50V
C091	1-101-004-00	CERAMIC	0.01MF		50V
C092	1-101-006-00	CERAMIC	0.047MF		50V
C093	1-102-816-00	CERAMIC	120PF	5%	50V
C094	1-101-004-00	CERAMIC	0.01MF		50V
C095	1-123-294-00	ELECT	47MF	20%	6.3V
C096	1-102-116-00	CERAMIC	680PF	10%	50V
C097	1-102-117-00	CERAMIC	820PF	10%	50V
C098	1-102-117-00	CERAMIC	820PF	10%	50V
C099	1-123-328-00	ELECT	4.7MF	20%	25V
C100	1-123-379-00	ELECT	0.47MF	20%	50V
C101	1-101-004-00	CERAMIC	0.01MF		50V
C102	1-123-332-00	ELECT	47MF	20%	16V
C103	1-101-004-00	CERAMIC	0.01MF		50V
C104	1-101-006-00	CERAMIC	0.047MF		50V
C105	1-102-963-00	CERAMIC	33PF	5%	50V
C106	1-161-059-00	CERAMIC	0.047MF	20%	50V
C107	1-102-976-00	CERAMIC	180PF	5%	50V
C108	1-102-961-00	CERAMIC	27PF	5%	50V
C110	1-123-356-00	ELECT	10MF	20%	16V
C401	1-123-380-00	ELECT	1MF	20%	50V
C402	1-123-318-00	ELECT	33MF	20%	16V
C403	1-123-306-00	ELECT	47MF	20%	10V
C404	1-102-973-00	CERAMIC	100PF	5%	50V
C405	1-101-884-00	CERAMIC	56PF	5%	50V
C406	1-101-001-00	CERAMIC	0.001MF		50V
C407	1-123-380-00	ELECT	1MF	20%	50V
C408	1-123-333-00	ELECT	100MF	20%	16V

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
C409	1-123-356-00	ELECT	10MF	20%	16V
C410	1-123-330-00	ELECT	22MF	20%	16V
C411	1-123-330-00	ELECT	22MF	20%	16V
C412	1-123-356-00	ELECT	10MF	20%	16V
C413	1-123-356-00	ELECT	10MF	20%	16V
C414	1-123-318-0C	ELECT	33MF	20%	16V
C415	1-108-611-00	MYLAR	0.22MF	5%	50V
C416	1-123-356-00	ELECT	10MF	20%	16V
C417	1-102-816-00	CERAMIC	120PF	5%	50V
C418	1-123-356-00	ELECT	10MF	20%	16V
C419	1-108-589-00	MYLAR	0.027MF	5%	50V
C420	1-108-555-00	MYLAR	0.001MF	5%	50V
C421	1-102-980-00	CERAMIC	270PF	5%	50V
C422	1-107-171-00	MICA	120PF	5%	500V
C423	1-129-709-00	FILM	0.0039MF	10%	630V
C424	1-108-587-00	MYLAR	0.022MF	5%	50V
C425	1-108-591-00	MYLAR	0.033MF	5%	50V
C426	1-123-332-00	ELECT	47MF	20%	16V
C428	1-123-330-00	ELECT	22MF	20%	16V
C429	1-131-341-00	ELECT(SOLID)	0.1MF	10%	25V
C430	1-123-380-00	ELECT	1MF	20%	50V
C431	1-108-579-00	MYLAR	0.01MF	5%	50V
C432	1-123-356-00	ELECT	10MF	20%	16V
C433	1-102-959-00	CERAMIC	22PF	5%	50V
C434	1-123-328-00	ELECT	4.7MF	20%	25V
C435	1-123-356-00	ELECT	10MF	20%	16V
C436	1-108-559-00	MYLAR	0.0015MF	5%	50V
C437	1-123-356-00	ELECT	10MF	20%	16V
C438	1-123-330-00	ELECT	22MF	20%	16V
C439	1-102-977-00	CERAMIC	200PF	5%	50V
C440	1-123-305-00	ELECT	33MF	20%	10V
C441	1-123-380-00	ELECT	1MF	20%	50V
C442	1-123-307-00	ELECT	100MF	20%	10V
C443	1-102-973-00	CERAMIC	100PF	5%	50V
C444	1-123-356-00	ELECT	10MF	20%	16V
C445	1-123-307-00	ELECT	100MF	20%	10V
C446	1-101-001-00	CERAMIC	0.001MF		50V
C447	1-108-589-00	MYLAR	0.027MF	5%	50V
C448	1-102-973-00	CERAMIC	100PF	5%	50V
C449	1-123-328-00	ELECT	4.7MF	20%	25V
C450	1-123-333-00	ELECT	100MF	20%	16V
C451	1-123-318-00	ELECT	33MF	20%	16V
C452	1-123-332-00	ELECT	47MF	20%	16V
C453	1-123-332-00	ELECT	47MF	20%	16V
C454	1-108-573-00	MYLAR	0.0056MF	5%	50V
C456	1-108-555-00	MYLAR	0.001MF	5%	50V
C457	1-123-356-00	ELECT	10MF	20%	16V
C458	1-123-356-00	ELECT	10MF	20%	16V
C459	1-123-356-00	ELECT	10MF	20%	16V

CONNECTOR

Ref.No.	Part No.	Description	Remark
CN401●:	1-508-846-00	PIN, CONNECTOR 8P	
CN402●:	1-508-846-00	PIN, CONNECTOR 8P	
CN403●:	1-508-845-00	PIN, CONNECTOR 6P	
CN404	1-508-910-00	PIN, CONNECTOR 12P	
CN405●:	1-508-742-00	PIN, CONNECTOR 3P	

DIODE

D001	8-719-815-55	DIODE 1S1555	
D002	8-719-815-55	DIODE 1S1555	
D003	8-719-815-55	DIODE 1S1555	
D004	8-719-815-55	DIODE 1S1555	
D005	8-719-162-07	DIODE RD6.2E-B3Z	
D006	8-719-815-55	DIODE 1S1555	
D007	8-719-815-55	DIODE 1S1555	
D008	8-719-815-55	DIODE 1S1555	
D009	8-719-815-55	DIODE 1S1555	
D010	8-719-815-55	DIODE 1S1555	
D011	8-719-815-55	DIODE 1S1555	
D012	8-719-815-55	DIODE 1S1555	
D013	8-719-815-55	DIODE 1S1555	
D014	8-719-815-55	DIODE 1S1555	
D015	8-719-815-55	DIODE 1S1555	
D016	8-719-815-55	DIODE 1S1555	
D017	8-719-815-55	DIODE 1S1555	
D018	8-719-815-55	DIODE 1S1555	
D019	8-719-815-55	DIODE 1S1555	
D020	8-719-815-55	DIODE 1S1555	
D021	8-719-815-55	DIODE 1S1555	
D401	=>8-719-422-21	DIODE 1T22AM	
D402	8-719-901-33	DIODE 1SS133	
D403	8-719-901-33	DIODE 1SS133	
D404	8-719-815-55	DIODE 1S1555	
D405	8-719-815-55	DIODE 1S1555	
D406	8-719-815-55	DIODE 1S1555	
D408	8-719-901-33	DIODE 1SS133	
D409	8-719-815-55	DIODE 1S1555	
D410	8-719-815-55	DIODE 1S1555	
D411	8-719-815-55	DIODE 1S1555	
D413	8-719-901-33	DIODE 1SS133	
D414	8-719-815-55	DIODE 1S1555	
D416	8-719-815-55	DIODE 1S1555	

DELAY LINE

DL001	1-415-210-00	DELAY LINE	

IC

IC001	8-751-360-00	IC CX-136A	
IC002	8-751-360-00	IC CX-136A	
IC003	8-751-300-00	IC CX-130	
IC004	8-751-450-00	IC CX-145	
IC005	8-751-450-00	IC CX-145	
IC006	8-759-600-50	IC CX-150B	
IC007	8-758-320-00	IC CX-832	
IC008	8-759-900-93	IC SN74LS93N	
IC009	8-759-900-10	IC SN74LS10N	

When indicating parts by reference number, please include the board name.

AV-1

Ref.No.	Part No.	Description	Remark
IC010	8-759-900-74	IC SN74LS74AN	
IC011	8-759-900-93	IC SN74LS93N	
IC012	8-759-684-78	IC M58478P	

COIL

Ref.No.	Part No.	Description	Remark
L001	1-407-684-00	MICRO INDUCTOR 1.8UH	
L002	1-407-684-00	MICRO INDUCTOR 1.8UH	
L003	1-407-701-00	MICRO INDUCTOR 47UH	
L004	1-407-701-00	MICRO INDUCTOR 47UH	
L005	1-407-696-00	MICRO INDUCTOR 18UH	
L006	1-407-488-00	MICRO INDUCTOR 470UH	
L007	1-407-488-00	MICRO INDUCTOR 470UH	
L008	1-407-161-XX	MICRO INDUCTOR 22UH	
L009	1-407-488-00	MICRO INDUCTOR 470UH	
L010	1-407-703-00	MICRO INDUCTOR 68UH	
L011	1-407-502-00	MICRO INDUCTOR 6.8MMH	
L012	1-407-717-00	MICRO INDUCTOR 1MMH	
L401	1-407-492-00	MICRO INDUCTOR 1MMH	
L402	1-407-504-00	MICRO INDUCTOR 10MMH	
L403	1-407-488-00	MICRO INDUCTOR 470UH	

VARIABLE COIL

Ref.No.	Part No.	Description	Remark
LV001	1-407-569-00	COIL, VARIABLE 10UH	
LV401	1-407-240-00	MICRO INDUCTOR 22MMH	
	1-408-696-00	VARIABLE INDUCTOR	
LV402	1-407-286-00	MICRO INDUCTOR 2.2MMH	
	1-408-690-00	VARIABLE INDUCTOR	

TRANSISTOR

Ref.No.	Part No.	Description	Remark
Q001	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q002	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q003	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q004	=>8-729-606-32	TRANSISTOR 2SC2603	
Q005	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q006	8-729-384-48	TRANSISTOR 2SA844	
Q007	8-729-384-48	TRANSISTOR 2SA844	
Q008	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q009	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q010	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q011	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q012	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q013	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q014	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q015	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q016	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q017	=>8-729-603-50	TRANSISTOR 2SC403SP	
Q018	=>8-729-100-13	TRANSISTOR 2SC2001	
Q019	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q020	8-729-194-57	TRANSISTOR 2SC945-P	
Q021	8-729-194-57	TRANSISTOR 2SC945-P	
Q022	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q023	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q024	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q025	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q026	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q027	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q028	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q401	8-729-334-58	TRANSISTOR 2SC1345	
Q402	8-729-334-58	TRANSISTOR 2SC1345	
Q403	8-729-663-47	TRANSISTOR 2SC1364	
Q404	=>8-729-663-47	TRANSISTOR 2SC1364	
Q405	=>8-729-663-47	TRANSISTOR 2SC1364	
Q406	=>8-729-663-47	TRANSISTOR 2SC1364	
Q407	=>8-729-177-43	TRANSISTOR 2SD774	
Q408	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q409	=>8-729-663-47	TRANSISTOR 2SC1364	
Q410	=>8-729-663-47	TRANSISTOR 2SC1364	
Q411	8-729-334-58	TRANSISTOR 2SC1345	
Q412	8-729-334-58	TRANSISTOR 2SC1345	
Q414	=>8-729-606-32	TRANSISTOR 2SC2603	
Q415	=>8-729-113-32	TRANSISTOR 2SB733	
Q416	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q417	=>8-729-113-32	TRANSISTOR 2SB733	
Q418	=>8-729-606-32	TRANSISTOR 2SC2603	
Q419	=>8-729-113-32	TRANSISTOR 2SB733	
Q420	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q421	=>8-729-663-47	TRANSISTOR 2SC1364	
Q423	=>8-729-113-32	TRANSISTOR 2SB733	
Q424	=>8-729-606-32	TRANSISTOR 2SC2603	
Q425	8-729-334-58	TRANSISTOR 2SC1345	
Q427	=>8-729-606-33	TRANSISTOR 2SC2603-F	

RESISTOR

Ref.No.	Part No.	Description				Remark
R001	1-246-467-00	CARBON	560	5%	1/4W	
R002	1-246-469-00	CARBON	680	5%	1/4W	
R003	1-246-864-00	CARBON	51K		1/8W	
R004	1-246-799-00	CARBON	22K		1/8W	
R005	1-246-852-00	CARBON	5.1K		1/8W	
R006	1-246-864-00	CARBON	51K		1/8W	
R007	1-246-864-00	CARBON	51K		1/8W	
R008	1-246-840-00	CARBON	510		1/8W	
R009	1-246-783-00	CARBON	1K		1/8W	
R010	1-246-783-00	CARBON	1K		1/8W	
R011	1-246-793-00	CARBON	6.8K		1/8W	
R012	1-246-776-00	CARBON	270		1/8W	
R013	1-246-776-00	CARBON	270		1/8W	
R014	1-246-846-00	CARBON	1.6K		1/8W	
R015	1-246-783-00	CARBON	1K		1/8W	
R016	1-246-783-00	CARBON	1K		1/8W	
R017	1-246-846-00	CARBON	1.6K		1/8W	
R018	1-246-789-00	CARBON	3.3K	5%	1/8W	
R019	1-246-789-00	CARBON	3.3K	5%	1/8W	
R020	1-246-788-00	CARBON	2.7K		1/8W	
R021	1-246-788-00	CARBON	2.7K		1/8W	
R022	1-246-793-00	CARBON	6.8K		1/8W	
R023	1-246-781-00	CARBON	680		1/8W	
R024	1-246-449-00	CARBON	100	5%	1/4W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
R025	1-246-800-00	CARBON	27K		1/8W	
R026	1-246-787-00	CARBON	2.2K		1/8W	
R027	1-246-787-00	CARBON	2.2K		1/8W	
R028	1-246-800-00	CARBON	27K		1/8W	
R029	1-246-801-00	CARBON	33K		1/8W	
R030	1-246-795-00	CARBON	10K		1/8W	
R031	1-246-794-00	CARBON	8.2K		1/8W	
R032	1-246-791-00	CARBON	4.7K		1/8W	
R033	1-246-463-00	CARBON	390	5%	1/4W	
R034	1-246-465-00	CARBON	470	5%	1/4W	
R035	1-246-783-00	CARBON	1K		1/8W	
R036	1-246-459-00	CARBON	270	5%	1/4W	
R037	1-246-804-00	CARBON	56K		1/8W	
R038	1-246-809-00	CARBON	150K		1/8W	
R039	1-246-779-00	CARBON	470		1/8W	
R040	1-246-798-00	CARBON	18K		1/8W	
R041	1-246-805-00	CARBON	68K		1/8W	
R042	1-246-789-00	CARBON	3.3K		1/8W	
R043	1-246-789-00	CARBON	3.3K		1/8W	
R044	1-246-489-00	CARBON	4.7K	5%	1/4W	
R045	1-246-793-00	CARBON	6.8K		1/8W	
R046	1-246-807-00	CARBON	100K		1/8W	
R047	1-246-797-00	CARBON	15K		1/8W	
R048	1-246-801-00	CARBON	33K		1/8W	
R049	1-246-795-00	CARBON	10K		1/8W	
R050	1-246-795-00	CARBON	10K		1/8W	
R051	1-246-793-00	CARBON	6.8K		1/8W	
R052	1-246-793-00	CARBON	6.8K		1/8W	
R053	1-246-791-00	CARBON	4.7K		1/8W	
R054	1-246-795-00	CARBON	10K		1/8W	
R055	1-246-801-00	CARBON	33K		1/8W	
R056	1-246-494-00	CARBON	7.5K	5%	1/4W	
R057	1-246-793-00	CARBON	6.8K		1/8W	
R058	1-246-791-00	CARBON	4.7K		1/8W	
R059	1-246-771-00	CARBON	100		1/8W	
R060	1-246-459-00	CARBON	270	5%	1/4W	
R061	1-246-783-00	CARBON	1K		1/8W	
R062	1-246-804-00	CARBON	56K		1/8W	
R063	1-246-809-00	CARBON	150K	5%	1/8W	
R064	1-246-779-00	CARBON	470		1/8W	
R065	1-246-798-00	CARBON	18K		1/8W	
R066	1-246-805-00	CARBON	68K		1/8W	
R067	1-246-505-00	CARBON	22K	5%	1/4W	
R068	1-246-795-00	CARBON	10K		1/8W	
R069	1-246-783-00	CARBON	1K		1/8W	
R070	1-246-783-00	CARBON	1K		1/8W	
R071	1-246-779-00	CARBON	470		1/8W	
R072	1-246-785-00	CARBON	1.5K		1/8W	
R073	1-246-803-00	CARBON	47K		1/8W	
R074	1-246-771-00	CARBON	100		1/8W	
R075	1-246-784-00	CARBON	1.2K		1/8W	
R076	1-246-795-00	CARBON	10K		1/8W	
R077	1-246-509-00	CARBON	33K	5%	1/4W	
R078	1-246-473-00	CARBON	1K	5%	1/4W	
R079	1-246-798-00	CARBON	18K		1/8W	
R080	1-246-799-00	CARBON	22K		1/8W	
R081	1-246-795-00	CARBON	10K		1/8W	
R082	1-246-789-00	CARBON	3.3K		1/8W	
R083	1-246-789-00	CARBON	3.3K		1/8W	
R084	1-244-839-00	CARBON	39	5%	1/2W	
R085	1-246-787-00	CARBON	2.2K		1/8W	
R086	1-246-801-00	CARBON	33K		1/8W	
R087	1-246-860-00	CARBON	24K		1/8W	
R088	1-246-802-00	CARBON	39K		1/8W	
R089	1-246-852-00	CARBON	5.1K		1/8W	
R090	1-246-795-00	CARBON	10K		1/8W	
R091	1-246-786-00	CARBON	1.8K	5%	1/8W	
R092	1-246-785-00	CARBON	1.5K		1/8W	
R093	1-246-782-00	CARBON	820		1/8W	
R094	1-246-783-00	CARBON	1K		1/8W	
R095	1-246-804-00	CARBON	56K		1/8W	
R096	1-246-789-00	CARBON	3.3K		1/8W	
R097	1-246-794-00	CARBON	8.2K		1/8W	
R098	1-246-804-00	CARBON	56K		1/8W	
R099	1-246-781-00	CARBON	680		1/8W	
R100	1-246-795-00	CARBON	10K		1/8W	
R101	1-246-795-00	CARBON	10K		1/8W	
R102	1-246-783-00	CARBON	1K		1/8W	
R103	1-246-793-00	CARBON	6.8K		1/8W	
R104	1-246-792-00	CARBON	5.6K		1/8W	
R105	1-246-779-00	CARBON	470		1/8W	
R106	1-246-473-00	CARBON	1K	5%	1/4W	
R107	1-246-789-00	CARBON	3.3K		1/8W	
R108	1-246-811-00	CARBON	220K	5%	1/8W	
R109	1-246-801-00	CARBON	33K		1/8W	
R110	1-246-795-00	CARBON	10K		1/8W	
R111	1-246-787-00	CARBON	2.2K		1/8W	
R112	1-246-789-00	CARBON	3.3K		1/8W	
R113	1-246-801-00	CARBON	33K		1/8W	
R114	1-246-473-00	CARBON	1K	5%	1/4W	
R115	1-246-795-00	CARBON	10K		1/8W	
R116	1-246-801-00	CARBON	33K		1/8W	
R117	1-246-789-00	CARBON	3.3K		1/8W	
R118	1-246-797-00	CARBON	15K		1/8W	
R119	1-246-771-00	CARBON	100		1/8W	
R120	1-246-801-00	CARBON	33K		1/8W	
R121	1-246-473-00	CARBON	1K	5%	1/4W	
R122	1-246-795-00	CARBON	10K		1/8W	
R123	1-246-807-00	CARBON	100K		1/8W	
R124	1-246-791-00	CARBON	4.7K		1/8W	
R125	1-246-792-00	CARBON	5.6K		1/8W	
R126	1-246-796-00	CARBON	12K		1/8W	
R127	1-246-789-00	CARBON	3.3K		1/8W	
R128	1-246-473-00	CARBON	1K	5%	1/4W	
R129	1-246-782-00	CARBON	820		1/8W	
R130	1-246-465-00	CARBON	470	5%	1/4W	

When indicating parts by reference number, please include the board name.

AV-1

Ref.No.	Part No.	Description				Remark
R130	1-246-783-00	CARBON	1K		1/8W	
R140	1-246-807-00	CARBON	100K		1/8W	
R141	1-246-785-00	CARBON	1.5K		1/8W	
R401	1-246-509-00	CARBON	33K	5%	1/4W	
R402	1-246-519-00	CARBON	82K	5%	1/4W	
R403	1-246-790-00	CARBON	3.9K	5%	1/8W	
R404	1-246-521-00	CARBON	100K	5%	1/4W	
R405	1-246-802-00	CARBON	39K	5%	1/8W	
R406	1-246-497-00	CARBON	10K	5%	1/4W	
R407	1-246-787-00	CARBON	2.2K	5%	1/8W	
R408	1-246-807-00	CARBON	100K	5%	1/8W	
R409	1-246-497-00	CARBON	10K	5%	1/4W	
R410	1-246-473-00	CARBON	1K	5%	1/4W	
R411	1-246-801-00	CARBON	33K		1/8W	
R412	1-246-809-00	CARBON	150K		1/8W	
R413	1-246-795-00	CARBON	10K		1/8W	
R414	1-210-825-00	COMPOSITION	3.3M	5%	1/4W	
R415	1-246-799-00	CARBON	22K		1/8W	
R416	1-246-801-00	CARBON	33K		1/8W	
R417	1-246-804-00	CARBON	56K		1/8W	
R418⚠	1-246-991-00	CARBON	150	5%	1/8W	F
R420	1-246-793-00	CARBON	6.8K		1/8W	
R421	1-247-047-00	CARBON	330K		1/8W	
R422	1-246-804-00	CARBON	56K		1/8W	
R423	1-246-792-00	CARBON	5.6K		1/8W	
R424	1-246-783-00	CARBON	1K		1/8W	
R425	1-246-776-00	CARBON	270		1/8W	
R426	1-246-798-00	CARBON	18K		1/8W	
R427	1-246-799-00	CARBON	22K		1/8W	
R428⚠	1-212-859-00	FUSIBLE	12	5%	1/4W	F
R430	1-247-047-00	CARBON	330K		1/8W	
R431	1-246-795-00	CARBON	10K		1/8W	
R432	1-246-783-00	CARBON	1K		1/8W	
R433	1-246-852-00	CARBON	5.1K	5%	1/8W	
R434	1-246-803-00	CARBON	47K		1/8W	
R435	1-247-051-00	CARBON	680K		1/8W	
R436	1-246-809-00	CARBON	150K		1/8W	
R437	1-246-803-00	CARBON	47K		1/8W	
R438	1-246-782-00	CARBON	820		1/8W	
R439	1-246-794-00	CARBON	8.2K		1/8W	
R440	1-246-805-00	CARBON	68K		1/8W	
R441	1-246-787-00	CARBON	2.2K		1/8W	
R442	1-246-785-00	CARBON	1.5K		1/8W	
R443	1-246-803-00	CARBON	47K		1/8W	
R444	1-246-787-00	CARBON	2.2K		1/8W	
R445	1-246-789-00	CARBON	3.3K		1/8W	
R446	1-246-797-00	CARBON	15K		1/8W	
R448	1-246-797-00	CARBON	15K		1/8W	
R449	1-246-795-00	CARBON	10K		1/8W	
R450	1-246-449-00	CARBON	100	5%	1/4W	
R451	1-246-795-00	CARBON	10K		1/8W	
R452	1-246-425-00	CARBON	10	5%	1/4W	
R453	1-246-545-00	CARBON	1M	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R454	1-246-519-00	CARBON	82K	5%	1/4W	
R455	1-246-768-00	CARBON	56		1/8W	
R456	1-246-789-00	CARBON	3.3K		1/8W	
R457	1-246-802-00	CARBON	39K		1/8W	
R458	1-246-497-00	CARBON	10K	5%	1/4W	
R459	1-246-787-00	CARBON	2.2K		1/8W	
R460	1-246-807-00	CARBON	100K		1/8W	
R463	1-246-800-00	CARBON	27K		1/8W	
R464	1-246-805-00	CARBON	68K		1/8W	
R465	1-246-509-00	CARBON	33K	5%	1/4W	
R466	1-246-787-00	CARBON	2.2K		1/8W	
R467	1-246-795-00	CARBON	10K		1/8W	
R468	1-246-792-00	CARBON	5.6K		1/8W	
R469	1-246-795-00	CARBON	10K		1/8W	
R470	1-246-475-00	CARBON	1.2K	5%	1/4W	
R471	1-246-792-00	CARBON	5.6K		1/8W	
R472	1-246-793-00	CARBON	6.8K		1/8W	
R473	1-246-799-00	CARBON	22K		1/8W	
R474	1-246-799-00	CARBON	22K		1/8W	
R475	1-246-799-00	CARBON	22K		1/8W	
R476	1-246-787-00	CARBON	2.2K		1/8W	
R477	1-246-791-00	CARBON	4.7K		1/8W	
R478	1-246-799-00	CARBON	22K		1/8W	
R479	1-246-795-00	CARBON	10K		1/8W	
R480	1-246-799-00	CARBON	22K		1/8W	
R481	1-246-791-00	CARBON	4.7K		1/8W	
R482	1-246-475-00	CARBON	1.2K	5%	1/4W	
R483	1-246-787-00	CARBON	2.2K		1/8W	
R484	1-246-799-00	CARBON	22K		1/8W	
R485	1-246-796-00	CARBON	12K		1/8W	
R486	1-246-796-00	CARBON	12K		1/8W	
R487	1-246-791-00	CARBON	4.7K		1/8W	
R491	1-246-795-00	CARBON	10K		1/8W	
R492	1-246-799-00	CARBON	22K		1/8W	
R493	1-246-795-00	CARBON	10K		1/8W	
R494	1-246-801-00	CARBON	33K		1/8W	
R495	1-246-801-00	CARBON	33K		1/8W	
R496	1-246-799-00	CARBON	22K		1/8W	

VARIABLE RESISTOR

RV001	1-224-644-XX	RES, ADJ, CARBON 4.7K
RV002	1-222-784-00	RES, ADJ, CARBON 3.3K
RV003	1-224-644-XX	RES, ADJ, CARBON 4.7K
RV004	1-226-819-00	RES, ADJ, CARBON 1K
RV005	1-226-819-00	RES, ADJ, CARBON 1K
RV006	1-224-552-00	RES, ADJ, CARBON 470K
RV401	1-224-645-XX	RES, ADJ, CARBON 10K
RV402	1-224-256-XX	RES, ADJ, METAL GLAZE 220K
RV403	1-224-645-XX	RES, ADJ, CARBON 10K
RV404	1-224-646-XX	RES, ADJ, CARBON 22K

RELAY

RY401	1-515-416-00	RELAY

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
RY402	1-515-323-00	RELAY				
RY403	1-515-323-00	RELAY				

TRANSFORMER

Ref.No.	Part No.	Description	Remark
T001	1-433-215-00	TRANSFORMER, OSCILLATOR	
T002	1-405-669-00	COIL, PST	
T003	1-405-802-00	COIL, OSC	
T004	1-405-803-00	COIL, OSC	
T005	1-425-982-00	COIL, BPT	
T006	1-411-106-00	COIL, TUNING-T	
T401	1-405-670-00	TRANSFOMER, OSCILLATOR	

THERMISTOR

Ref.No.	Part No.	Description	Remark
TH001	1-800-198-XX	THERMISTOR S-1K	

CRYSTAL

Ref.No.	Part No.	Description	Remark
X001	1-527-345-00	CRYSTAL, OSC	
X002	1-527-353-00	CRYSTAL, OSC	
X003	1-527-598-00	VIBRATOR, CRYSTAL	

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A-6717-141-C PL-2 BOARD, COMPLETE
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CAPACITOR

Ref.No.	Part No.	Description				Remark
C601	1-123-234-00	ELECT	10MF	20%	50V	

DIODE

Ref.No.	Part No.	Description	Remark
D601	8-719-200-02	DIODE 10E-2	
D602	8-719-200-02	DIODE 10E-2	
D603	8-719-200-02	DIODE 10E-2	
D604	8-719-200-02	DIODE 10E-2	
D605	8-719-200-02	DIODE 10E-2	
D606	8-719-200-02	DIODE 10E-2	
D607	8-719-200-02	DIODE 10E-2	
D608	8-719-200-02	DIODE 10E-2	
D609	8-719-200-02	DIODE 10E-2	
D610	8-719-200-02	DIODE 10E-2	
D611	8-719-200-02	DIODE 10E-2	
D612	8-719-200-02	DIODE 10E-2	

TRANSISTOR

Ref.No.	Part No.	Description	Remark
Q602	8-729-331-53	TRANSISTOR 2SC2315	
Q603	=>8-729-177-32	TRANSISTOR 2SD773	
Q605	8-729-331-53	TRANSISTOR 2SC2315	
Q606	=>8-729-177-32	TRANSISTOR 2SD773	
Q608	8-729-331-53	TRANSISTOR 2SC2315	
Q609	=>8-729-177-32	TRANSISTOR 2SD773	
Q610	=>8-729-177-32	TRANSISTOR 2SD773	
Q613	8-729-331-53	TRANSISTOR 2SC2315	
Q614	8-729-663-47	TRANSISTOR 2SC1364	
Q615	=>8-729-663-47	TRANSISTOR 2SC1364	

RESISTOR

Ref.No.	Part No.	Description				Remark
R602	1-246-497-00	CARBON	10K	5%	1/4W	
R603	1-246-481-00	CARBON	2.2K	5%	1/4W	
R604	1-246-497-00	CARBON	10K	5%	1/4W	
R605	1-246-481-00	CARBON	2.2K	5%	1/4W	
R606	1-246-497-00	CARBON	10K	5%	1/4W	
R607	1-246-481-00	CARBON	2.2K	5%	1/4W	
R608	1-246-497-00	CARBON	10K	5%	1/4W	
R609	1-246-481-00	CARBON	2.2K	5%	1/4W	
R610	1-246-497-00	CARBON	10K	5%	1/4W	
R611	1-246-481-00	CARBON	2.2K	5%	1/4W	
R612	1-246-497-00	CARBON	10K	5%	1/4W	
R613	1-246-481-00	CARBON	2.2K	5%	1/4W	
R614	1-246-497-00	CARBON	10K	5%	1/4W	
R615	1-246-497-00	CARBON	10K	5%	1/4W	
R618	1-213-138-00	METAL	390	5%	1W	F
R623	1-246-497-00	CARBON	10K	5%	1/4W	
R624	1-246-497-00	CARBON	10K	5%	1/4W	
R625	1-246-497-00	CARBON	10K	5%	1/4W	
R626	1-246-508-00	CARBON	30K	5%	1/4W	
R627	1-246-497-00	CARBON	10K	5%	1/4W	

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♣:A-6717-162-A SY-15 BOARD, COMPLETE
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CAPACITOR

Ref.No.	Part No.	Description				Remark
C001	1-129-794-00	FILM	0.0033MF	2%	100V	
C002	1-123-380-00	ELECT	1MF	20%	50V	
C003	1-123-380-00	ELECT	1MF	20%	50V	
C004	1-123-380-00	ELECT	1MF	20%	50V	
C005	1-123-380-00	ELECT	1MF	20%	50V	
C006	1-129-794-00	FILM	0.0033MF	2%	100V	
C007	1-123-380-00	ELECT	1MF	20%	50V	
C008	1-123-380-00	ELECT	1MF	20%	50V	
C009	1-123-328-00	ELECT	4.7MF	20%	25V	
C010	1-130-201-00	FILM	0.068MF	5%	50V	
C011	1-130-201-00	FILM	0.068MF	5%	50V	
C012	1-130-201-00	FILM	0.068MF	5%	50V	
C013	1-131-345-00	ELECT(SOLID)	0.47MF	10%	25V	
C014	1-131-408-00	ELECT(SOLID)	1MF	10%	25V	
C016	1-123-330-00	ELECT	22MF	20%	16V	
C017	1-101-004-00	CERAMIC	0.01MF		50V	
C018	1-101-004-00	CERAMIC	0.01MF		50V	
C019	1-101-004-00	CERAMIC	0.01MF		50V	
C020	1-123-328-00	ELECT	4.7MF	20%	25V	
C021	1-123-328-00	ELECT	4.7MF	20%	25V	
C022	1-123-320-00	ELECT	100MF	20%	16V	
C023	1-123-318-00	ELECT	33MF	20%	16V	
C024	1-123-318-00	ELECT	33MF	20%	16V	
C025	1-101-005-00	CERAMIC	0.022MF		50V	
C026	1-101-005-00	CERAMIC	0.022MF		50V	

When indicating parts by reference number, please include the board name.

SY-15

Ref.No.	Part No.	Description		Remark
C027	1-101-005-00	CERAMIC	0.022MF	50V
C028	1-101-004-00	CERAMIC	0.01MF	50V
C029	1-101-004-00	CERAMIC	0.01MF	50V
C030	1-101-004-00	CERAMIC	0.01MF	50V
C031	1-101-004-00	CERAMIC	0.01MF	50V
C032	1-101-005-00	CERAMIC	0.022MF	50V
C033	1-101-004-00	CERAMIC	0.01MF	50V
C034	1-101-004-00	CERAMIC	0.01MF	50V
C035	1-101-005-00	CERAMIC	0.022MF	50V
C036	1-101-005-00	CERAMIC	0.022MF	50V
C037	1-101-006-00	CERAMIC	0.047MF	50V
C038	1-101-006-00	CERAMIC	0.047MF	50V
C050	1-101-004-00	CERAMIC	0.01MF	50V
		CONNECTOR		
CN001●:	1-508-797-00	PIN, CONNECTOR 4P		
CN002●:	1-508-742-00	PIN, CONNECTOR 3P		
CN005●:	1-508-846-00	PIN, CONNECTOR 8P		
CN006●:	1-508-847-00	PIN, CONNECTOR 4P		
CN007●:	1-508-797-00	PIN, CONNECTOR 4P		
CN008●:	1-508-797-31	PIN, CONNECTOR 4P		
CN009●:	1-508-742-00	PIN, CONNECTOR 3P		
CN010●:	1-508-742-00	PIN, CONNECTOR 3P		
CN011●:	1-508-742-00	PIN, CONNECTOR 3P		
CN012●:	1-508-744-00	PIN, CONNECTOR 10P		
CN013●:	1-508-736-21	PIN, CONNECTOR		
CN014●:	1-508-736-00	PIN, CONNECTOR 10P		
CN015●:	1-508-846-00	PIN, CONNECTOR 8P		
CN016●:	1-508-846-00	PIN, CONNECTOR 8P		
		DIODE		
D001	8-719-200-02	DIODE 10E-2		
D002	8-719-200-02	DIODE 10E-2		
D003	8-719-901-33	DIODE 1SS133		
D004	8-719-901-33	DIODE 1SS133		
D005	8-719-901-33	DIODE 1SS133		
D006	8-719-182-07	DIODE RD8.2E-B		
D007	8-719-901-33	DIODE 1SS133		
D008	8-719-901-33	DIODE 1SS133		
D009	8-719-901-33	DIODE 1SS133		
D010	8-719-815-55	DIODE 1S1555		
D011	8-719-815-55	DIODE 1S1555		
D012	8-719-815-55	DIODE 1S1555		
D013	8-719-815-55	DIODE 1S1555		
D014	8-719-200-02	DIODE 10E-2		
D015	8-719-901-33	DIODE 1SS133		
D016	8-719-901-33	DIODE 1SS133		
D017	8-719-815-55	DIODE 1S1555		
D018	8-719-111-07	DIODE RD11E-B		
D019	8-719-901-33	DIODE 1SS133		
D020	8-719-901-33	DIODE 1SS133		
D021	8-719-901-33	DIODE 1SS133		
D022	8-719-901-33	DIODE 1SS133		

Ref.No.	Part No.	Description	Remark
D023	8-719-815-55	DIODE 1S1555	
D024	8-719-901-33	DIODE 1SS133	
D025	8-719-901-33	DIODE 1SS133	
D026	8-719-901-33	DIODE 1SS133	
D027	8-719-815-55	DIODE 1S1555	
D028	8-719-901-33	DIODE 1SS133	
D029	8-719-901-33	DIODE 1SS133	
D030	8-719-815-55	DIODE 1S1555	
D036	8-719-815-55	DIODE 1S1555	
		IC	
IC001	8-759-240-66	IC TC4066BP	
IC002	8-759-240-69	IC TC4069UBP	
IC003	8-759-240-69	IC TC4069UBP	
IC004	8-759-240-01	IC TC4001BP	
IC005	8-759-240-69	IC TC4069UBP	
IC006	8-759-146-17	IC UPD546C-107	
IC007	8-759-147-49	IC UPD547C-049	
IC008	8-743-420-00	IC BX-342	
IC009	8-743-420-00	IC BX-342	
		COIL	
L001	1-407-594-00	MICRO INDUCTOR 33MMH	
L002	1-407-594-00	MICRO INDUCTOR 33MMH	
		TRANSISTOR	
Q001	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q002	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q003	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q004	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q005	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q006	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q008	8-729-331-53	TRANSISTOR 2SC2315	
Q009	8-725-412-00	TRANSISTOR 2SC1124	
Q010	=>8-729-177-32	TRANSISTOR 2SD773	
Q011	=>8-729-113-32	TRANSISTOR 2SB733	
Q012	=>8-729-113-32	TRANSISTOR 2SB733	
Q013	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q014	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q015	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q016	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q017	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q018	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q019	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q020	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q021	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q022	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q023	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q024	=>8-729-177-32	TRANSISTOR 2SD773	
Q025	8-729-177-32	TRANSISTOR 2SD773	
Q026	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q027	=>8-729-606-33	TRANSISTOR 2SC2603-F	

When indicating parts by reference number, please include the board name.

RESISTOR

Ref.No.	Part No.	Description				Remark
R001	1-246-871-00	CARBON	200K		1/8W	
R002	1-246-854-00	CARBON	7.5K		1/8W	
R003	1-246-799-00	CARBON	22K		1/8W	
R004	1-246-806-00	CARBON	82K		1/8W	
R005	1-246-768-00	CARBON	56		1/8W	
R006	1-246-871-00	CARBON	200K		1/8W	
R007	1-246-854-00	CARBON	7.5K		1/8W	
R008	1-246-783-00	CARBON	1K		1/8W	
R009	1-246-803-00	CARBON	47K		1/8W	
R010	1-246-791-00	CARBON	4.7K		1/8W	
R011	1-246-787-00	CARBON	2.2K		1/8W	
R012	1-246-804-00	CARBON	56K		1/8W	
R013	1-246-804-00	CARBON	56K		1/8W	
R014	1-246-795-00	CARBON	10K		1/8W	
R015	1-246-807-00	CARBON	100K		1/8W	
R016	1-246-787-00	CARBON	2.2K		1/8W	
R017	1-246-795-00	CARBON	10K		1/8W	
R018	1-246-768-00	CARBON	56		1/8W	
R019	1-246-473-00	CARBON	1K	5%	1/4W	
R020	1-246-783-00	CARBON	1K		1/8W	
R021	1-246-800-00	CARBON	27K		1/8W	
R022	1-246-449-00	CARBON	100	5%	1/4W	
R023	1-246-787-00	CARBON	2.2K		1/8W	
R025	1-246-795-00	CARBON	10K		1/8W	
R026	1-246-787-00	CARBON	2.2K		1/8W	
R027	1-246-795-00	CARBON	10K		1/8W	
R028	1-246-449-00	CARBON	100	5%	1/4W	
R029	1-246-863-00	CARBON	43K		1/8W	
R030	1-246-481-00	CARBON	2.2K	5%	1/4W	
R031	1-246-795-00	CARBON	10K		1/8W	
R032	1-246-804-00	CARBON	56K		1/8W	
R033	1-246-497-00	CARBON	10K	5%	1/4W	
R034	1-246-795-00	CARBON	10K		1/8W	
R035	1-246-795-00	CARBON	10K		1/8W	
R036	1-246-795-00	CARBON	10K		1/8W	
R037	1-246-777-00	CARBON	330		1/8W	
R038	1-246-806-00	CARBON	82K		1/8W	
R039	1-246-505-00	CARBON	22K	5%	1/4W	
R040	1-246-804-00	CARBON	56K		1/8W	
R041	1-246-792-00	CARBON	5.6K	5%	1/8W	
R042	1-246-782-00	CARBON	820		1/8W	
R043	1-246-471-00	CARBON	820	5%	1/4W	
R044	1-246-806-00	CARBON	82K		1/8W	
R045	1-246-799-00	CARBON	22K		1/8W	
R046	1-246-807-00	CARBON	100K		1/8W	
R047	1-246-811-00	CARBON	220K		1/8W	
R048	1-246-521-00	CARBON	100K	5%	1/4W	
R049	1-246-807-00	CARBON	100K		1/8W	
R050	1-246-795-00	CARBON	10K		1/8W	
R051	1-246-795-00	CARBON	10K		1/8W	
R052	1-246-804-00	CARBON	56K	5%	1/8W	
R053	1-246-521-00	CARBON	100K	5%	1/4W	
R054	1-246-787-00	CARBON	2.2K		1/8W	
R055	1-246-804-00	CARBON	56K	5%	1/8W	
R056	1-246-795-00	CARBON	10K		1/8W	
R057	1-246-795-00	CARBON	10K		1/8W	
R058	1-246-795-00	CARBON	10K		1/8W	
R059	1-246-799-00	CARBON	22K	5%	1/8W	
R060	1-246-799-00	CARBON	22K	5%	1/8W	
R061	1-246-804-00	CARBON	56K		1/8W	
R062	1-246-787-00	CARBON	2.2K		1/8W	
R063	1-246-515-00	CARBON	56K	5%	1/4W	
R064	1-246-497-00	CARBON	10K	5%	1/4W	
R065	1-246-497-00	CARBON	10K	5%	1/4W	
R066	1-246-783-00	CARBON	1K		1/8W	
R067	1-246-795-00	CARBON	10K		1/8W	
R068	1-246-505-00	CARBON	22K	5%	1/4W	
R069	1-246-806-00	CARBON	82K		1/8W	
R070	1-246-515-00	CARBON	56K	5%	1/4W	
R071	1-246-783-00	CARBON	1K		1/8W	
R072	1-246-803-00	CARBON	47K		1/8W	
R073	1-246-795-00	CARBON	10K		1/8W	
R074	1-246-799-00	CARBON	22K		1/8W	
R075	1-246-780-00	CARBON	560		1/8W	
R076	1-246-801-00	CARBON	33K		1/8W	
R077	1-246-803-00	CARBON	47K		1/8W	
R078	1-246-803-00	CARBON	47K		1/8W	
R079	1-246-799-00	CARBON	22K		1/8W	
R080	1-246-795-00	CARBON	10K		1/8W	
R081	1-246-804-00	CARBON	56K		1/8W	
R082	1-246-787-00	CARBON	2.2K		1/8W	
R083	1-246-787-00	CARBON	2.2K		1/8W	
R084	1-246-497-00	CARBON	10K	5%	1/4W	
R085	1-246-497-00	CARBON	10K	5%	1/4W	
R086	1-246-515-00	CARBON	56K	5%	1/4W	
R087	1-246-515-00	CARBON	56K	5%	1/4W	
R088	1-246-804-00	CARBON	56K		1/8W	
R089	1-246-782-00	CARBON	820		1/8W	
R090	1-246-497-00	CARBON	10K	5%	1/4W	
R091	1-246-515-00	CARBON	56K	5%	1/4W	
R092	1-246-804-00	CARBON	56K		1/8W	
R093	1-246-795-00	CARBON	10K		1/8W	
R094	1-246-521-00	CARBON	100K	5%	1/4W	
R095	1-246-521-00	CARBON	100K	5%	1/4W	
R096	1-246-521-00	CARBON	100K	5%	1/4W	
R098	1-246-783-00	CARBON	1K		1/8W	
R099	1-246-795-00	CARBON	10K	5%	1/8W	
R100	1-246-795-00	CARBON	10K	5%	1/8W	
R101	1-246-497-00	CARBON	10K	5%	1/4W	
R102	1-246-497-00	CARBON	10K	5%	1/4W	
R103	1-246-795-00	CARBON	10K		1/8W	
R104	1-246-804-00	CARBON	56K		1/8W	

When indicating parts by reference number, please include the board name.

SY-15 SY-14

VARIABLE RESISTOR

Ref.No.	Part No.	Description	Remark
RV001	1-224-662-00	RES, ADJ, METAL FILM 220K	
RV002	1-224-662-00	RES, ADJ, METAL FILM 220K	

TRANSFORMER

Ref.No.	Part No.	Description	Remark
T001	1-405-800-00	TRANSFORMER, OSC	
T002	1-405-800-00	TRANSFORMER, OSC	

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Ref.No.	Part No.	Description	Remark
	♠:A-6717-163-B	SY-14 BOARD, COMPLETE	
	3-646-090-00	RIVET, NYLON	
	♠:3-659-486-00	HOLDER (C), LED	
	3-659-521-00	KNOB, SWITCH, LEVER SLIDE	
	♠:3-659-573-00	BRACKET (UPPER), FS PC BOARD	
	♠:3-659-628-00	BRACKET (LOWER), FS PC BOARD	
	3-659-685-00	HOLDER (B), LED	
	♠:3-663-217-00	HOLDER, LED, 6 GANG	
	4-308-030-11	WASHER, DOUBLE STICK TAPE	

CONNECTOR

Ref.No.	Part No.	Description	Remark
CN001	♠:1-508-736-00	PIN, CONNECTOR 10P	
CN002	♠:1-508-849-00	PIN, CONNECTOR 8P	
CN003	♠:1-508-735-00	PIN, CONNECTOR 5P	
CN004	♠:1-508-734-00	PIN, CONNECTOR 3P	
CN005	♠:1-508-734-00	CONNECTOR PIN	

DIODE

Ref.No.	Part No.	Description	Remark
D001	8-719-815-55	DIODE 1S1555	
D002	8-719-815-55	DIODE 1S1555	
D003	8-719-815-55	DIODE 1S1555	
D004	8-719-815-55	DIODE 1S1555	
D005	8-719-815-55	DIODE 1S1555	
D006	8-719-815-55	DIODE 1S1555	
D007	8-719-815-55	DIODE 1S1555	
D008	8-719-815-55	DIODE 1S1555	
D009	8-719-815-55	DIODE 1S1555	
D010	8-719-815-55	DIODE 1S1555	
D011	8-719-812-31	DIODE TLR123	
D012	8-719-812-31	DIODE TLR123	
D013	8-719-812-31	DIODE TLR123	
D014	8-719-812-31	DIODE TLR123	
D015	8-719-812-31	DIODE TLR123	
D016	8-719-812-31	DIODE TLR123	
D017	8-719-812-31	DIODE TLR123	
D018	8-719-815-55	DIODE 1S1555	
D019	8-719-815-55	DIODE 1S1555	
D020	8-719-815-55	DIODE 1S1555	
D021	8-719-815-55	DIODE 1S1555	
D022	8-719-160-52	DIODE SR605C	
D023	8-719-160-52	DIODE SR605C	
D024	8-719-160-52	DIODE SR605C	
D025	8-719-160-52	DIODE SR605C	
D026	8-719-160-52	DIODE SR605C	
D027	8-719-160-52	DIODE SR605C	
D028	8-719-812-31	DIODE TLR123	
D029	8-719-175-07	DIODE RD7.5E-B	
D030	=>8-719-911-19	DIODE 1SS119	
D031	8-719-812-31	DIODE TLR123	
D032	8-719-815-55	DIODE 1S1555	
D033	8-719-815-55	DIODE 1S1555	
D034	8-719-815-55	DIODE 1S1555	

TRANSISTOR

Ref.No.	Part No.	Description	Remark
Q001	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q002	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q003	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q004	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q005	8-729-993-72	TRANSISTOR 2SA937	
Q008	8-729-993-72	TRANSISTOR 2SA937	
Q009	=>8-729-178-54	TRANSISTOR 2SC2785	
Q013	=>8-729-606-33	TRANSISTOR 2SC2603-F	

RESISTOR

Ref.No.	Part No.	Description				Remark
R001	1-246-515-00	CARBON	56K	5%	1/4W	
R002	1-246-515-00	CARBON	56K	5%	1/4W	
R003	1-246-515-00	CARBON	56K	5%	1/4W	
R004	1-246-515-00	CARBON	56K	5%	1/4W	
R005	1-246-515-00	CARBON	56K	5%	1/4W	
R006	1-246-515-00	CARBON	56K	5%	1/4W	
R007	1-246-515-00	CARBON	56K	5%	1/4W	
R008	1-246-505-00	CARBON	22K	5%	1/4W	
R009	1-246-505-00	CARBON	22K	5%	1/4W	
R010	1-246-471-00	CARBON	820	5%	1/4W	
R011	1-246-473-00	CARBON	1K	5%	1/4W	
R012	1-246-473-00	CARBON	1K	5%	1/4W	
R013	1-246-473-00	CARBON	1K	5%	1/4W	
R014	1-246-473-00	CARBON	1K	5%	1/4W	
R015	1-246-473-00	CARBON	1K	5%	1/4W	
R016	1-246-473-00	CARBON	1K	5%	1/4W	
R017	1-246-521-00	CARBON	100K	5%	1/4W	
R018	1-246-497-00	CARBON	10K	5%	1/4W	
R019	1-246-497-00	CARBON	10K	5%	1/4W	
R020	1-246-497-00	CARBON	10K	5%	1/4W	
R021	1-246-497-00	CARBON	10K	5%	1/4W	
R022	1-246-497-00	CARBON	10K	5%	1/4W	
R023	1-246-497-00	CARBON	10K	5%	1/4W	
R024	1-246-473-00	CARBON	1K	5%	1/4W	
R025	1-246-473-00	CARBON	1K	5%	1/4W	
R031	1-246-463-00	CARBON	390	5%	1/4W	
R032	1-246-489-00	CARBON	4.7K	5%	1/4W	
R033	1-246-471-00	CARBON	820	5%	1/4W	
R034	1-246-471-00	CARBON	820	5%	1/4W	
R035	1-246-493-00	CARBON	6.8K	5%	1/4W	
R036	1-246-495-00	CARBON	8.2K	5%	1/4W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R037	1-246-473-00	CARBON	1K	5%	1/4W
R047	1-246-521-00	CARBON	100K	5%	1/4W
R048	1-246-497-00	CARBON	10K	5%	1/4W
R049	1-246-489-00	CARBON	4.7K	5%	1/4W

SWITCH

Ref.No.	Part No.	Description
SW001	1-552-412-00	SWITCH, KEY BOARD
SW002	1-552-412-00	SWITCH, KEY BOARD
SW003	1-552-412-00	SWITCH, KEY BOARD
SW004	1-552-412-00	SWITCH, KEY BOARD
SW005	1-552-412-00	SWITCH, KEY BOARD
SW006	1-552-412-00	SWITCH, KEY BOARD
SW007	1-552-412-00	SWITCH, KEY BOARD
SW008	1-552-412-00	SWITCH, KEY BOARD
SW009	1-552-412-00	SWITCH, KEY BOARD
SW010	1-552-412-00	SWITCH, KEY BOARD
SW011	1-552-412-00	SWITCH, KEY BOARD
SW012	1-516-994-00	SWITCH, LEVER SLIDE

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Ref.No.	Part No.	Description
	♠:A-6721-038-A	IF-10 BOARD, COMPLETE **********************
	♠:3-662-232-00	REINFORCEMENT, IF-10
	♠:3-662-268-00	LID, UPPER, IF SHIELD CASE
	♠:3-662-283-00	CASE (MAIN), SHIELD, VIF
	♠:3-662-333-00	CASE, SHIELD (UPPER), VIF
	♠:4-317-753-13	LID, BOTTOM, SHIELD CASE (A)
	♠:4-317-759-00	SHIELD CASE (A), MAIN
	♠:4-336-029-00	PLATE, SHIELD
	♠:4-336-032-00	CASE (LOWER), SHIELD, VIF

CAPACITOR

Ref.No.	Part No.	Description			Remark
C501	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C502	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C503	1-161-272-00	CERAMIC	120PF	5%	50V
C504	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C505	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C506	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C507	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C508	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C509	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C510	1-123-369-00	ELECT	4.7MF	20%	50V
C511	1-123-356-00	ELECT	10MF	20%	16V
C512	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C513	1-161-280-00	CERAMIC	12PF	5%	50V
C514	1-102-529-00	CERAMIC	100PF	5%	50V
C515	1-161-323-00	CERAMIC	0.001MF	10%	50V
C516	1-123-321-00	ELECT	220MF	20%	16V
C517	1-161-851-00	************	000000000	0	0
C518	1-103-725-00	POLYSTYRENE	0.001MF	5%	50V
C519	1-161-330-51	CERAMIC	0.01MF	30%	25V
C520	1-101-006-00	CERAMIC	0.047MF		50V
C521	1-101-006-00	CERAMIC	0.047MF		50V
C523	1-108-385-00	MYLAR	0.047MF	10%	100V
C524	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C525	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C526	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C527	1-102-852-00	CERAMIC	47PF	5%	50V
C528	1-102-525-00	CERAMIC	68PF	5%	50V
C529	1-161-249-00	CERAMIC	1.5PF	20%	50V
C530	1-161-259-00	CERAMIC	10PF	5%	50V
C531	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C532	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C533	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C534	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C535	1-123-333-00	ELECT	100MF	20%	16V
C536	1-161-267-00	CERAMIC	47PF	5%	50V

FILTER

Ref.No.	Part No.	Description
CF501	1-404-134-00	TRAP, CERAMIC (5.5MHZ)
CF502	1-527-263-00	CERAMIC FILTER (5.5MHZ)

CONNECTOR

Ref.No.	Part No.	Description
CN501	♠:1-508-743-00	PIN, CONNECTOR 5P
CN503	♠:1-508-797-00	PIN, CONNECTOR 4P

IC

Ref.No.	Part No.	Description
IC501	8-759-014-40	IC TBA1440G
IC502	8-759-651-35	IC M5135P
IC503	8-759-001-20	IC TBA120UB

JACK

Ref.No.	Part No.	Description
JK501	♠:1-526-575-00	SOCKET, PLUG

COIL

Ref.No.	Part No.	Description
L501	1-404-221-00	COIL, IF
L502	1-407-687-00	MICRO INDUCTOR 3.3UH
L503	1-407-695-00	MICRO INDUCTOR 15UH
L504	1-407-693-00	MICRO INDUCTOR 10UH
L505	1-407-687-00	MICRO INDUCTOR 3.3UH

TRANSISTOR

Ref.No.	Part No.	Description
Q501	8-765-300-00	TRANSISTOR 2SC2009
Q502	=>8-729-663-47	TRANSISTOR 2SC1364

RESISTOR

Ref.No.	Part No.	Description			Remark
R501	1-246-446-00	CARBON	75	5%	1/4W
R502	1-246-489-00	CARBON	4.7K	5%	1/4W
R503	1-246-487-00	CARBON	3.9K	5%	1/4W
R504	1-246-475-00	CARBON	1.2K	5%	1/4W
R505	1-246-457-00	CARBON	220	5%	1/4W
R506	1-246-495-00	CARBON	8.2K	5%	1/4W
R508	1-246-517-00	CARBON	68K	5%	1/4W
R509	1-246-457-00	CARBON	220	5%	1/4W
R510	1-246-449-00	CARBON	100	5%	1/4W

When indicating parts by reference number, please include the board name.

IF-10 TU-26

Ref.No.	Part No.	Description				Remark
R511	1-246-463-00	CARBON	390	5%	1/4W	
R512	1-246-517-00	CARBON	68K	5%	1/4W	
R513	1-246-511-00	CARBON	39K	5%	1/4W	
R514	1-246-475-00	CARBON	1.2K	5%	1/4W	
R515	1-246-489-00	CARBON	4.7K	5%	1/4W	
R517 ⚠	1-247-005-00	CARBON	100	5%	1/4W	F
R518	1-246-473-00	CARBON	1K	5%	1/4W	
R519	1-246-473-00	CARBON	1K	5%	1/4W	
R520	1-246-481-00	CARBON	2.2K	5%	1/4W	
R524	1-246-461-00	CARBON	330	5%	1/4W	
R526	1-246-457-00	CARBON	220	5%	1/4W	
R530	1-246-473-00	CARBON	1K	5%	1/4W	
R531	1-246-481-00	CARBON	2.2K	5%	1/4W	

VARIABLE RESISTOR

RV501	1-224-645-XX	RES, ADJ, CARBON 10K
RV502	1-222-518-31	RES, ADJ, CARBON 4.7K

FILTER

SF501	1-404-208-00	SAWF (38.9MHZ)

TRANSFORMER

T501	1-404-206-00	IFT
T502	1-404-207-00	COIL, VIF
T503	1-404-203-00	COIL, VIF
T504	1-403-810-00	TRANSFOMER, AFT DISCRI (PRI)
T505	1-403-811-00	TRANSFOMER, AFT DISCRI (SEC)
T506	1-404-135-00	COIL, SIF DISCRI
T507	1-404-097-00	COIL, SIFT

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●:A-6721-088-A TU-26 BOARD, COMPLETE

	●:1-555-110-00	CABLE, PIN
	●:3-659-654-00	LID, UPPER, SHIELD CASE
	●:3-662-233-00	REINFORCEMENT, TU-7
	●:3-662-266-00	LID, BOTTOM, SHIELD CASE
	●:3-662-267-00	CASE, SHIELD, CONVERTER (MAIN)
	●:3-663-280-00	LID, SHIELD CASE, TU-26

CAPACITOR

Ref.No.	Part No.	Description				Remark
C101	1-123-356-00	ELECT	10MF	20%	25V	
C102	1-123-319-00	ELECT	47MF	20%	16V	
C103	1-108-389-00	MYLAR	0.1MF	10%	100V	
C104	1-101-118-00	CERAMIC	0.01MF	20%	50V	
C105	1-108-389-00	MYLAR	0.1MF	10%	100V	
C106	1-102-529-00	CERAMIC	100PF	5%	50V	
C107	1-102-526-00	CERAMIC	75PF	5%	50V	
C108	1-102-947-00	CERAMIC	10PF	5%	50V	
C109	1-102-525-00	CERAMIC	68PF	5%	50V	
C110	1-102-904-00	CERAMIC	110PF	5%	50V	
C111	1-123-318-00	ELECT	33MF	20%	16V	
C112	1-123-333-00	ELECT	100MF	20%	16V	
C113	1-102-953-00	CERAMIC	18PF	5%	50V	
C114	1-102-676-00	CERAMIC	68PF	5%	50V	
C115	1-121-419-00	ELECT	220MF		6.3V	
C116	1-121-806-00	ELECT	10MF	20%	16V	
C117	1-123-332-00	ELECT	47MF	20%	16V	
C118	1-123-380-00	ELECT	1MF	20%	50V	
C119	1-108-591-00	MYLAR	0.033MF	5%	50V	
C120	1-108-367-00	MYLAR	0.0015MF	10%	100V	
C121	1-123-333-00	ELECT	100MF	20%	16V	
C122	1-123-379-00	ELECT	0.47MF	20%	50V	
C123	1-123-379-00	ELECT	0.47MF	20%	50V	
C124	1-102-973-00	CERAMIC	100PF	5%	50V	
C125	1-123-381-00	ELECT	2.2MF	20%	50V	
C126	1-101-804-00	CERAMIC	10PF	5%	500V	
C127	1-108-409-00	MYLAR	0.001MF	10%	200V	
C128	1-108-409-00	MYLAR	0.001MF	10%	200V	
C129	1-123-267-00	ELECT	2.2MF	20%	160V	
C130	1-123-356-00	ELECT	10MF	20%	25V	

CONNECTOR

CN101●	:1-508-797-00	PIN, CONNECTOR 4P
CN102●	:1-508-743-00	PIN, CONNECTOR 5P
CN103	1-508-910-00	PIN, CONNECTOR 12P
CN104●	:1-508-910-00	PIN, CONNECTOR 12P
CN105●	:1-508-845-00	PIN, CONNECTOR 6P

DIODE

D101	8-719-815-55	DIODE 1S1555
D102	8-719-815-55	DIODE 1S1555
D103	8-719-815-55	DIODE 1S1555
D104	=>8-719-901-83	DIODE 1SS83

JACK

JK101●	:1-526-575-00	SOCKET, PLUG

COIL

L101	1-404-068-00	COIL, VIF
L102	1-404-068-00	COIL, VIF
L103	1-407-705-00	MICRO INDUCTOR 100UH
L104	1-407-696-00	MICRO INDUCTOR 18UH
L105	1-407-705-00	MICRO INDUCTOR 100UH

TRANSISTOR

Q101	=>8-729-603-50	TRANSISTOR 2SC403SP
Q102	=>8-729-612-77	TRANSISTOR 2SA1027R
Q103	=>8-729-194-57	TRANSISTOR 2SC945-P
Q104	=>8-729-177-43	TRANSISTOR 2SD774

RESISTOR

R101	1-246-509-00	CARBON	33K	5%	1/4W

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
R102	1-246-521-00	CARBON	100K	5%	1/4W	
R103	1-246-484-00	CARBON	3K	5%	1/4W	
R104	1-246-475-00	CARBON	1.2K	5%	1/4W	
R105	1-246-475-00	CARBON	1.2K	5%	1/4W	
R106	1-246-469-00	CARBON	680	5%	1/4W	
R107	1-246-481-00	CARBON	2.2K	5%	1/4W	
R108	1-246-521-00	CARBON	100K	5%	1/4W	
R109	1-246-513-00	CARBON	47K	5%	1/4W	
R110	1-246-479-00	CARBON	1.8K	5%	1/4W	
R111	1-246-457-00	CARBON	220	5%	1/4W	
R112	1-246-473-00	CARBON	1K	5%	1/4W	
R113	1-246-513-00	CARBON	47K	5%	1/4W	
R114	1-246-531-00	CARBON	270K	5%	1/4W	
R115	1-246-473-00	CARBON	1K	5%	1/4W	
R116	1-246-499-00	CARBON	12K	5%	1/4W	
R117	1-246-473-00	CARBON	1K	5%	1/4W	
R118	1-246-467-00	CARBON	560	5%	1/4W	
R119⚠	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R120	1-246-491-00	CARBON	5.6K	5%	1/4W	
R121	1-246-437-00	CARBON	33	5%	1/4W	
R122	1-246-473-00	CARBON	1K	5%	1/4W	

VARIABLE RESISTOR

Ref.No.	Part No.	Description
RV101	1-224-646-XX	RES, ADJ, CARBON 22K

TRANSFORMER

Ref.No.	Part No.	Description
T101	1-446-295-00	TRANSFORMER, CONVERTOR

TUNER

Ref.No.	Part No.	Description
TU101	1-463-350-00	TUNER (BT-881)

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♠:1-602-539-00 LF-14 BOARD
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♠:1-533-087-00 HOLDER, FUSE

CONNECTOR

Ref.No.	Part No.	Description
CN002♠	:1-508-786-00	2P PLUG (M)
CN003♠	:1-508-786-00	2P PLUG (M)
CN004♠	:1-560-033-00	PLUG, CONNECTOR (3P)
CN005♠	:1-560-033-00	PLUG, CONNECTOR (3P)

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♠:1-602-435-12 FS-8 BOARD
****

1-533-162-00 HOLDER, FUSE

CAPACITOR

Ref.No.	Part No.	Description			
C001	1-123-325-00	ELECT	2200MF	20%	16V
C002	1-123-325-00	ELECT	2200MF	20%	16V

CONNECTOR

Ref.No.	Part No.	Description
CN010♠	:1-560-136-00	PLUG, CONNECTOR 4P
CN011♠	:1-508-797-31	PIN, CONNECTOR 4P
CN013♠	:1-508-744-00	PIN, CONNECTOR 10P
CN014♠	:1-508-846-00	PIN, CONNECTOR 8P

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♠:A-6725-152-A LS-3 BOARD, COMPLETE
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CAPACITOR

Ref.No.	Part No.	Description			Remark
C501	1-101-004-00	CERAMIC	0.01MF		50V
C502	1-101-006-00	CERAMIC	0.047MF		50V

CONNECTOR

Ref.No.	Part No.	Description
CN501♠	:1-508-847-00	PIN, CONNECTOR 4P
CN502♠	:1-508-734-00	PIN, CONNECTOR 3P
CN503♠	:1-508-847-00	PIN, CONNECTOR 4P
CN504♠	:1-508-734-00	PIN, CONNECTOR 3P

DIODE

Ref.No.	Part No.	Description
D501	8-719-815-55	DIODE 1S1555
D502	8-719-200-02	DIODE 10E-2
D503	8-719-815-55	DIODE 1S1555

TRANSISTOR

Ref.No.	Part No.	Description
Q501	=>8-729-606-32	TRANSISTOR 2SC2603
Q502	=>8-729-612-77	TRANSISTOR 2SA1027R
Q503	=>8-729-663-47	TRANSISTOR 2SC1364
Q504	8-763-113-00	TRANSISTOR 2SC1761
Q505	=>8-729-663-47	TRANSISTOR 2SC1364
Q506	=>8-729-606-32	TRANSISTOR 2SC2603
Q507	=>8-729-606-32	TRANSISTOR 2SC2603
Q508	=>8-729-612-77	TRANSISTOR 2SA1027R
Q509	8-729-316-16	TRANSISTOR 2SC1061
Q510	=>8-729-606-32	TRANSISTOR 2SC2603
Q511	=>8-729-663-47	TRANSISTOR 2SC1364
Q512	8-763-113-00	TRANSISTOR 2SC1761

RESISTOR

Ref.No.	Part No.	Description				Remark
R501	1-246-505-00	CARBON	22K	5%	1/4W	
R502	1-246-505-00	CARBON	22K	5%	1/4W	
R503	1-246-497-00	CARBON	10K	5%	1/4W	
R505	1-246-513-00	CARBON	47K	5%	1/4W	
R506	1-246-505-00	CARBON	22K	5%	1/4W	
R507	1-246-493-00	CARBON	6.8K	5%	1/4W	
R508⚠	1-247-034-00	CARBON	220	5%	1/8W	F
R509	1-246-465-00	CARBON	470	5%	1/4W	
R510	1-246-465-00	CARBON	470	5%	1/4W	
R511	1-246-513-00	CARBON	47K	5%	1/4W	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

LS-3 CN-6 CH-4 CH-5 CH-6

Ref.No.	Part No.	Description			Remark
R512	1-246-497-00	CARBON	10K	5%	1/4W
R513⚠	1-212-356-00	METAL	0.47	5%	1W F

SWITCH

SW501	1-553-035-00	SWITCH, LEVER

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♠:1-601-763-00 CN-6 BOARD
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	1-552-180-00	SWITCH, REED
	♠:3-659-359-00	PLATE, BOOST, REED, SWITCH

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♠:A-6728-116-A CH-4 BOARD, COMPLETE
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	1-552-904-00	SWITCH, PUSH

NEON LAMP

NL201	1-519-154-00	LAMP, NEON
NL202	1-519-154-00	LAMP, NEON
NL203	1-519-154-00	LAMP, NEON
NL204	1-519-154-00	LAMP, NEON
NL205	1-519-154-00	LAMP, NEON
NL206	1-519-154-00	LAMP, NEON
NL207	1-519-154-00	LAMP, NEON
NL208	1-519-154-00	LAMP, NEON

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♠:A-6728-117-A CH-5 BOARD, COMPLETE
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VARIABLE RESISTOR

RV301	1-226-190-21	RES, VAR, PRESET
RV302	1-226-190-11	RES, VAR, PRESET
RV303	1-226-190-21	RES, VAR, PRESET
RV304	1-226-190-11	RES, VAR, PRESET

SWITCH

S301	1-552-339-00	SWITCH, SLIDE
S302	1-552-339-00	SWITCH, SLIDE
S303	1-552-339-00	SWITCH, SLIDE
S304	1-552-339-00	SWITCH, SLIDE
S305	1-516-226-00	SLIDE SWITCH

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♠:A-6728-118-A CH-6 BOARD, COMPLETE
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CAPACITOR

Ref.No.	Part No.	Description			Remark
C401	1-123-356-00	ELECT	10MF	20%	16V
C403	1-123-356-00	ELECT	10MF	20%	16V
C404	1-101-001-00	CERAMIC	0.001MF		50V
C405	1-123-356-00	ELECT	10MF	20%	16V
C406	1-123-380-00	ELECT	1MF	20%	50V
C407	1-108-377-00	MYLAR	0.01MF	10%	100V
C408	1-108-377-00	MYLAR	0.01MF	10%	100V
C409	1-123-380-00	ELECT	1MF	20%	50V
C410	1-121-806-00	ELECT	10MF	20%	16V
C411	1-123-380-00	ELECT	1MF	20%	50V
C412	1-123-380-00	ELECT	1MF	20%	50V

CONNECTOR

CN401	♠:1-508-847-00	PIN, CONNECTOR 4P

DIODE

D401	8-719-162-07	DIODE RD6.2E-B

IC

IC401	8-759-157-40	IC UPC574J

COIL

L401	1-407-701-00	MICRO INDUCTOR 47UH

TRANSISTOR

Q401	=>8-729-113-32	TRANSISTOR 2SB733
Q402	=>8-729-606-32	TRANSISTOR 2SC2603
Q403	=>8-729-606-32	TRANSISTOR 2SC2603
Q404	=>8-729-606-32	TRANSISTOR 2SC2603
Q405	=>8-729-606-32	TRANSISTOR 2SC2603
Q406	=>8-729-606-32	TRANSISTOR 2SC2603
Q407	=>8-729-606-32	TRANSISTOR 2SC2603
Q408	=>8-729-117-54	TRANSISTOR 2SA1175
Q409	=>8-729-194-57	TRANSISTOR 2SC945-P
Q410	=>8-729-194-57	TRANSISTOR 2SC945-P
Q411	=>8-769-200-20	TRANSISTOR 2SK107-2

RESISTOR

R401	1-246-497-00	CARBON	10K	5%	1/4W
R402	1-246-475-00	CARBON	1.2K	5%	1/4W
R403	1-246-497-00	CARBON	10K	5%	1/4W
R404	1-246-509-00	CARBON	33K	5%	1/4W
R405	1-246-466-00	CARBON	510	5%	1/4W
R406	1-246-473-00	CARBON	1K	5%	1/4W
R407	1-246-465-00	CARBON	470	5%	1/4W
R408	1-246-488-00	CARBON	4.3K	5%	1/4W
R409	1-246-497-00	CARBON	10K	5%	1/4W
R410	1-246-497-00	CARBON	10K	5%	1/4W
R411	1-246-497-00	CARBON	10K	5%	1/4W
R412	1-244-904-00	CARBON	20K	5%	1/2W
R413	1-244-904-00	CARBON	20K	5%	1/2W
R414	1-246-485-00	CARBON	3.3K	5%	1/4W
R415	1-246-513-00	CARBON	47K	5%	1/4W

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R416	1-246-513-00	CARBON	47K	5%	1/4W
R417	1-246-485-00	CARBON	3.3K	5%	1/4W
R418	1-246-509-00	CARBON	33K	5%	1/4W
R419	1-246-503-00	CARBON	18K	5%	1/4W
R420	1-246-497-00	CARBON	10K	5%	1/4W
R421	1-246-521-00	CARBON	100K	5%	1/4W
R422	1-246-537-00	CARBON	470K	5%	1/4W

VARIABLE RESISTOR

Ref.No.	Part No.	Description
RV401	1-224-643-XX	RES, ADJ, CARBON 2.2K
RV401	1-224-643-XX	RES, ADJ, CARBON 2.2K
RV402	1-226-190-11	RES, VAR PRESET
RV403	1-226-190-21	RES, VAR, PRESET
RV404	1-226-190-11	RES, VAR PRESET
RV405	1-226-190-21	RES, VAR, PRESET

SWITCH

Ref.No.	Part No.	Description
S401	1-516-226-00	SLIDE SWITCH
S402	1-552-339-00	SWITCH, SLIDE
S403	1-552-339-00	SWITCH, SLIDE
S404	1-552-339-00	SWITCH, SLIDE
S405	1-552-339-00	SWITCH, SLIDE

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♠:A-6728-119-A SV-1 BOARD, COMPLETE
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CAPACITOR

Ref.No.	Part No.	Description			Remark
C001	1-161-059-00	CERAMIC	0.047MF	10%	50V
C002	1-123-356-00	ELECT	10MF	20%	16V
C003	1-108-587-00	MYLAR	0.022MF	5%	50V
C004	1-108-587-00	MYLAR	0.022MF	5%	50V
C005	1-108-595-00	MYLAR	0.047MF	5%	50V
C006	1-101-001-00	CERAMIC	0.001MF		50V
C007	1-101-006-00	CERAMIC	0.047MF		50V
C008	1-131-369-00	TANTALUM	4.7MF	20%	16V
C009	1-131-369-00	TANTALUM	4.7MF	20%	16V
C010	1-101-006-00	CERAMIC	0.047MF		50V
C011	1-131-345-00	ELECT(SOLID)	0.47MF	10%	25V
C012	1-123-305-00	ELECT	33MF	20%	10V
C013	1-130-201-00	FILM	0.068MF	5%	50V
C014	1-101-001-00	CERAMIC	0.001MF		50V
C015	1-130-535-00	FILM	0.15MF	5%	50V
C016	1-123-379-00	ELECT	0.47MF	20%	50V
C017	1-101-006-00	CERAMIC	0.047MF		50V
C018	1-101-004-00	CERAMIC	0.01MF		50V
C019	1-161-025-00	CERAMIC	0.1MF	10%	25V
C020	1-123-333-00	ELECT	100MF	20%	16V
C021	1-131-345-00	TANTALUM	0.47MF	10%	35V
C022	1-131-345-00	TANTALUM	0.47MF	20%	35V
C023	1-131-347-00	TANTALUM	1MF	20%	35V
C024	1-101-001-00	CERAMIC	0.001MF		50V
C025	1-123-356-00	ELECT	10MF	20%	16V
C026	1-131-354-00	TANTALUM	1.5MF	10%	25V
C027	1-131-354-00	TANTALUM	1.5MF	10%	25V
C028	1-123-356-00	ELECT	10MF	20%	16V
C029	1-102-961-00	CERAMIC	27PF	5%	50V
C030	1-102-961-00	CERAMIC	27PF	5%	50V
C031	1-123-356-00	ELECT	10MF	20%	16V
C032	1-101-006-00	CERAMIC	0.047MF		50V
C033	1-123-333-00	ELECT	100MF	20%	16V
C034	1-123-330-00	ELECT	22MF	20%	16V
C035	1-123-328-00	ELECT	4.7MF	20%	25V
C036	1-123-380-00	ELECT	1MF	20%	50V
C037	1-123-381-00	ELECT	2.2MF	20%	50V
C038	1-123-330-00	ELECT	22MF	20%	16V
C039	1-108-563-00	MYLAR	0.0022MF	5%	50V
C040	1-123-323-00	ELECT	470MF	20%	16V

CONNECTOR

Ref.No.	Part No.	Description
CN001♠	:1-508-742-00	PIN, CONNECTOR 3P
CN002♠	:1-508-744-00	PIN, CONNECTOR 10P
CN003♠	:1-508-797-31	PIN, CONNECTOR 4P
CN004♠	:1-508-744-00	PIN, CONNECTOR 10P
CN005♠	:1-508-846-00	PIN, CONNECTOR 8P

DIODE

Ref.No.	Part No.	Description
D003	8-719-901-33	DIODE 1SS133
D006	8-719-162-07	DIODE RD6.2E-B
D007	8-719-815-55	DIODE 1S1555
D008	8-719-901-33	DIODE 1SS133
D009	8-719-815-55	DIODE 1S1555
D010	8-719-901-33	DIODE 1SS133
D011	8-719-162-07	DIODE RD6.2E-B
D012	8-719-815-55	DIODE 1S1555
D013	8-719-815-55	DIODE 1S1555
D014	8-719-815-55	DIODE 1S1555
D015	8-719-815-55	DIODE 1S1555
D016	8-719-901-33	DIODE 1SS133
D017	8-719-815-55	DIODE 1S1555
D018	8-719-901-33	DIODE 1SS133
D019	8-719-901-33	DIODE 1SS133
D020	8-719-901-33	DIODE 1SS133
D021	8-719-901-33	DIODE 1SS133
D022	8-719-901-33	DIODE 1SS133
D023	8-719-901-33	DIODE 1SS133
D024	8-719-901-33	DIODE 1SS133
D025	8-719-901-33	DIODE 1SS133

IC

Ref.No.	Part No.	Description
IC001	8-759-601-86	IC CX-186
IC002	8-759-684-78	IC M58478P

TRANSISTOR

Ref.No.	Part No.	Description
Q001	=>8-729-117-54	TRANSISTOR 2SA1175
Q002	=>8-729-663-47	TRANSISTOR 2SC1364

When indicating parts by reference number, please include the board name.

SV-1

Ref.No.	Part No.	Description		Remark
Q003	=>8-729-117-54	TRANSISTOR	2SA1175	
Q004	=>8-729-612-77	TRANSISTOR	2SA1027R	
Q005	=>8-729-663-47	TRANSISTOR	2SC1364	
Q006	=>8-729-663-47	TRANSISTOR	2SC1364	
Q007	=>8-729-663-47	TRANSISTOR	2SC1364	
Q008	=>8-729-663-47	TRANSISTOR	2SC1364	
Q009	=>8-729-663-47	TRANSISTOR	2SC1364	
Q010	=>8-729-606-33	TRANSISTOR	2SC2603-F	
Q011	=>8-729-663-47	TRANSISTOR	2SC1364	
Q012	=>8-729-606-33	TRANSISTOR	2SC2603-F	
Q013	=>8-729-663-47	TRANSISTOR	2SC1364	
Q014	=>8-729-663-47	TRANSISTOR	2SC1364	
Q015	=>8-729-117-54	TRANSISTOR	2SA1175	
Q016	=>8-729-663-47	TRANSISTOR	2SC1364	
Q017	=>8-729-117-54	TRANSISTOR	2SA1175	
Q018	=>8-729-663-47	TRANSISTOR	2SC1364	
Q019	=>8-729-663-47	TRANSISTOR	2SC1364	
Q020	=>8-729-663-47	TRANSISTOR	2SC1364	
Q021	=>8-729-117-54	TRANSISTOR	2SA1175	
Q022	=>8-729-663-47	TRANSISTOR	2SC1364	
Q023	=>8-729-663-47	TRANSISTOR	2SC1364	
Q024	=>8-729-612-77	TRANSISTOR	2SA1027R	
Q025	=>8-729-612-77	TRANSISTOR	2SA1027R	
Q026	=>8-729-612-77	TRANSISTOR	2SA1027R	
Q027	=>8-729-612-77	TRANSISTOR	2SA1027R	
Q028	=>8-729-117-54	TRANSISTOR	2SA1175	

RESISTOR

Ref.No.	Part No.	Description				Remark
R001	1-246-795-00	CARBON	10K		1/8W	
R002	1-246-521-00	CARBON	100K	5%	1/4W	
R003	1-246-864-00	CARBON	51K		1/8W	
R004	1-246-521-00	CARBON	100K	5%	1/4W	
R005	1-246-799-00	CARBON	22K		1/8W	
R006	1-246-806-00	CARBON	82K		1/8W	
R007	1-246-802-00	CARBON	39K		1/8W	
R008	1-246-793-00	CARBON	6.8K		1/8W	
R009	1-246-793-00	CARBON	6.8K		1/8W	
R010	1-247-048-00	CARBON	390K		1/8W	
R011	1-202-472-00	COMPOSITION	5.1M	5%	1/4W	
R012	1-246-789-00	CARBON	3.3K		1/8W	
R013	1-246-802-00	CARBON	39K		1/8W	
R014	1-246-793-00	CARBON	6.8K		1/8W	
R015	1-246-801-00	CARBON	33K		1/8W	
R016	1-246-828-00	CARBON	51		1/8W	
R017	1-246-801-00	CARBON	33K		1/8W	
R018	1-246-798-00	CARBON	18K		1/8W	
R019	1-246-795-00	CARBON	10K		1/8W	
R020	1-246-521-00	CARBON	100K	5%	1/4W	
R021	1-246-771-00	CARBON	100		1/8W	
R022	1-246-848-00	CARBON	2.4K		1/8W	
R023	1-214-771-41	METAL	56K	1%	1/4W	
R024	1-246-517-00	CARBON	68K	5%	1/4W	
R025	1-246-802-00	CARBON	39K		1/8W	
R026	1-214-777-41	METAL	100K	1%	1/4W	
R027	1-246-809-00	CARBON	150K		1/8W	
R028	1-246-795-00	CARBON	10K		1/8W	
R029	1-246-797-00	CARBON	15K		1/8W	
R030	1-246-806-00	CARBON	82K		1/8W	
R031	1-246-809-00	CARBON	150K		1/8W	
R032	1-246-783-00	CARBON	1K		1/8W	
R033	1-214-759-41	METAL	18K	1%	1/4W	
R034	1-246-794-00	CARBON	8.2K		1/8W	
R035	1-246-807-00	CARBON	100K		1/8W	
R036	1-246-521-00	CARBON	100K	5%	1/4W	
R037	1-246-807-00	CARBON	100K		1/8W	
R038	1-246-498-00	CARBON	11K	5%	1/4W	
R039	1-246-489-00	CARBON	4.7K	5%	1/4W	
R040	1-246-797-00	CARBON	15K		1/8W	
R041	1-246-779-00	CARBON	470		1/8W	
R042	1-246-786-00	CARBON	1.8K		1/8W	
R043	1-246-785-00	CARBON	1.5K		1/8W	
R044	1-246-797-00	CARBON	15K		1/8W	
R045	1-246-803-00	CARBON	47K		1/8W	
R046	1-246-505-00	CARBON	22K	5%	1/4W	
R047	1-246-513-00	CARBON	47K	5%	1/4W	
R048	1-246-791-00	CARBON	4.7K		1/8W	
R049	1-246-501-00	CARBON	15K	5%	1/4W	
R050	1-246-512-00	CARBON	43K	5%	1/4W	
R051	1-246-803-00	CARBON	47K		1/8W	
R052	1-246-513-00	CARBON	47K	5%	1/4W	
R053	1-246-792-00	CARBON	5.6K		1/8W	
R054	1-246-792-00	CARBON	5.6K		1/8W	
R055	1-246-807-00	CARBON	100K		1/8W	
R056	1-246-784-00	CARBON	1.2K		1/8W	
R057	1-246-792-00	CARBON	5.6K		1/8W	
R058	1-246-803-00	CARBON	47K		1/8W	
R059	1-246-807-00	CARBON	100K		1/8W	
R060	1-246-783-00	CARBON	1K		1/8W	
R061	1-246-792-00	CARBON	5.6K		1/8W	
R062	1-246-803-00	CARBON	47K		1/8W	
R063	1-246-792-00	CARBON	5.6K		1/8W	
R064	1-246-804-00	CARBON	56K		1/8W	
R065	1-246-801-00	CARBON	33K		1/8W	
R066	1-246-795-00	CARBON	10K		1/8W	
R067	1-246-799-00	CARBON	22K	5%	1/8W	
R068	1-246-491-00	CARBON	5.6K	5%	1/4W	
R069	1-246-497-00	CARBON	10K	5%	1/4W	
R070	1-246-807-00	CARBON	100K		1/8W	
R071	1-246-801-00	CARBON	33K		1/8W	
R072	1-246-804-00	CARBON	56K		1/8W	
R073	1-246-463-00	CARBON	390	5%	1/4W	
R074	1-246-795-00	CARBON	10K		1/8W	
R075	1-246-791-00	CARBON	4.7K		1/8W	
R076	1-246-805-00	CARBON	68K		1/8W	
R077	1-246-801-00	CARBON	33K		1/8W	
R078	1-246-801-00	CARBON	33K		1/8W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
R079	1-246-806-00	CARBON	82K		1/8W	
R080	1-246-794-00	CARBON	8.2K		1/8W	
R081	1-246-865-00	CARBON	62K		1/8W	
R082	1-246-807-00	CARBON	100K		1/8W	
R083	1-246-807-00	CARBON	100K		1/8W	
R084	1-246-800-00	CARBON	27K		1/8W	
R085	1-246-512-00	CARBON	43K	5%	1/4W	
R086	1-246-447-00	CARBON	82	5%	1/4W	
R087	1-246-804-00	CARBON	56K		1/8W	
R088	1-246-799-00	CARBON	22K		1/8W	
R089	1-246-785-00	CARBON	1.5K		1/8W	
R090	1-246-795-00	CARBON	10K		1/8W	
R091	1-246-795-00	CARBON	10K		1/8W	
R092	1-246-771-00	CARBON	100		1/8W	
R093	1-246-800-00	CARBON	27K		1/8W	
R094	1-246-799-00	CARBON	22K		1/8W	
R095	1-246-803-00	CARBON	47K		1/8W	
R096	1-246-787-00	CARBON	2.2K		1/8W	
R097	1-246-513-00	CARBON	47K	5%	1/4W	
R098	1-246-489-00	CARBON	4.7K	5%	1/4W	
R099	1-246-799-00	CARBON	22K		1/8W	
R100	1-246-799-00	CARBON	22K		1/8W	
R101	1-246-505-00	CARBON	22K	5%	1/4W	
R102	1-246-799-00	CARBON	22K		1/8W	
R103	1-247-049-00	CARBON	470K		1/8W	
R104	1-246-859-00	CARBON	20K		1/8W	
R105	1-246-981-00	CARBON	4.7	5%	1/8W	F

VARIABLE RESISTOR

RV001	1-224-254-XX	RES, ADJ, SOLID 47K
RV002	1-224-255-XX	RES, ADJ, SOLID 100K
RV003	1-224-253-XX	RES, ADJ, SOLID 22K
RV004	1-224-254-XX	RES, ADJ, SOLID 47K
RV005	1-224-254-XX	RES, ADJ, METAL GLAZE 47K
RV006	1-224-253-XX	RES, ADJ, SOLID 22K
RV007	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K
RV008	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K
RV009	1-224-253-XX	RES, ADJ, SOLID 22K
RV010	1-224-253-XX	RES, ADJ, METAL GLAZE 22K
RV011	1-224-253-XX	RES, ADJ, METAL GLAZE 22K

CRYSTAL

X001	1-527-597-00	VIBRATOR, CRYSTAL

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●:A-6728-120-A SV-2 BOARD, COMPLETE
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●:3-662-245-00 REINFORCEMENT, CH-3

CAPACITOR

Ref.No.	Part No.	Description			Remark
C101	1-130-200-00	FILM	0.047MF	5%	50V
C102	1-130-200-00	FILM	0.047MF	5%	50V
C103	1-130-200-00	FILM	0.047MF	5%	50V
C104	1-130-199-00	FILM	0.01MF	5%	50V
C105	1-101-006-00	CERAMIC	0.047MF		50V
C106	1-108-595-00	MYLAR	0.047MF	5%	50V
C107	1-108-555-00	MYLAR	0.001MF	5%	50V
C108	1-131-371-00	TANTALUM	10MF	20%	16V
C109	1-131-361-00	TANTALUM	2.2MF	20%	20V
C110	1-131-361-00	TANTALUM	2.2MF	20%	20V
C111	1-131-371-00	TANTALUM	10MF	20%	16V
C112	1-101-006-00	CERAMIC	0.047MF		50V
C113	1-101-001-00	CERAMIC	0.001MF		50V
C114	1-123-379-00	ELECT	0.47MF	20%	50V
C115	1-123-380-00	ELECT	1MF	20%	50V
C116	1-101-003-00	CERAMIC	0.0047MF		50V
C118	1-131-344-00	ELECT(SOLID)	0.33MF	10%	25V
C119	1-101-006-00	CERAMIC	0.047MF		50V
C120	1-131-408-00	ELECT(SOLID)	1MF	10%	25V
C121	1-123-328-00	ELECT	4.7MF	20%	25V
C122	1-131-369-00	TANTALUM	4.7MF	20%	16V
C123	1-131-369-00	TANTALUM	4.7MF	20%	16V
C124	1-101-006-00	CERAMIC	0.047MF		50V
C125	1-123-320-00	ELECT	100MF	20%	16V
C126	1-123-307-00	ELECT	100MF	20%	10V
C127	1-102-106-00	CERAMIC	100PF	10%	50V
C128	1-102-106-00	CERAMIC	100PF	10%	50V
C129	1-123-333-00	ELECT	100MF	20%	16V
C130	1-161-013-00	CERAMIC	0.01MF	10%	25V
C131	1-161-016-00	CERAMIC	0.018MF	10%	25V
C132	1-123-356-00	ELECT	10MF	20%	16V
C133	1-102-963-00	CERAMIC	33PF	5%	50V
C134	1-123-298-00	ELECT	470MF	20%	6.3V
C135	1-123-356-00	ELECT	10MF	20%	16V
C136	1-123-296-00	ELECT	220MF	20%	6.3V
C137	1-123-356-00	ELECT	10MF	20%	16V
C138	1-123-307-00	ELECT	100MF	20%	10V
C139	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V
C140	1-123-332-00	ELECT	47MF	20%	16V
C141	1-123-330-00	ELECT	22MF	20%	16V
C142	1-123-356-00	ELECT	10MF	20%	16V
C143	1-123-333-00	ELECT	100MF	20%	16V
C144	1-101-005-00	CERAMIC	0.022MF		50V

CONNECTOR

CN101●:	1-508-734-00	PIN, CONNECTOR 3P
CN103●:	1-508-734-00	CONNECTOR PIN
CN104●:	1-508-734-00	PIN, CONNECTOR 3P
CN105●:	1-508-734-00	PIN, CONNECTOR 3P

DIODE

D101	8-719-815-55	DIODE 1S1555
D102	8-719-815-55	DIODE 1S1555
D105	8-719-815-55	DIODE 1S1555

When indicating parts by reference number, please include the board name.

SV-2

Ref.No.	Part No.	Description				Remark
D106	8-719-815-55	DIODE 1S1555				
D107	8-719-815-55	DIODE 1S1555				
D108	8-719-815-55	DIODE 1S1555				
D109	8-719-901-33	DIODE 1SS133				
D110	8-719-815-55	DIODE 1S1555				
D111	8-719-815-55	DIODE 1S1555				
D112	8-719-815-55	DIODE 1S1555				
D113	8-719-815-55	DIODE 1S1555				

IC

Ref.No.	Part No.	Description				Remark
IC101	8-751-430-00	IC CX-143A				
IC102	8-759-240-11	IC TC4011BP				
IC103	8-759-271-20	IC TA7120P				

TRANSISTOR

Ref.No.	Part No.	Description				Remark
Q101	=>8-729-117-54	TRANSISTOR 2SA1175				
Q102	=>8-729-663-47	TRANSISTOR 2SC1364				
Q103	=>8-729-117-54	TRANSISTOR 2SA1175				
Q105	=>8-729-117-54	TRANSISTOR 2SA1175				
Q106	=>8-729-117-54	TRANSISTOR 2SA1175				
Q107	=>8-729-117-54	TRANSISTOR 2SA1175				
Q110	=>8-729-194-57	TRANSISTOR 2SC945-P				
Q111	=>8-729-606-32	TRANSISTOR 2SC2603				
Q112	=>8-729-117-54	TRANSISTOR 2SA1175				
Q113	=>8-729-606-33	TRANSISTOR 2SC2603-F				
Q114	=>8-729-117-54	TRANSISTOR 2SA1175				
Q115	=>8-729-194-57	TRANSISTOR 2SC945-P				
Q116	=>8-729-606-32	TRANSISTOR 2SC2603				
Q117	=>8-729-606-32	TRANSISTOR 2SC2603				

RESISTOR

Ref.No.	Part No.	Description				Remark
R101	1-214-759-41	METAL	18K	1%	1/4W	
R102	1-246-810-00	CARBON	180K		1/8W	
R103	1-246-800-00	CARBON	27K		1/8W	
R104	1-246-783-00	CARBON	1K		1/8W	
R105	1-246-793-00	CARBON	6.8K		1/8W	
R106	1-246-793-00	CARBON	6.8K		1/8W	
R107	1-246-795-00	CARBON	10K		1/8W	
R108	1-246-805-00	CARBON	68K		1/8W	
R109	1-247-050-00	CARBON	560K		1/8W	
R110	1-246-473-00	CARBON	1K	5%	1/4W	
R111	1-246-859-00	CARBON	20K		1/8W	
R113	1-214-753-41	METAL	10K	1%	1/4W	
R114	1-214-774-41	METAL	75K	1%	1/4W	
R115	1-246-783-00	CARBON	1K		1/8W	
R121	1-246-868-00	CARBON	110K		1/8W	
R122	1-246-787-00	CARBON	2.2K		1/8W	
R123	1-246-807-00	CARBON	100K		1/8W	
R124	1-246-797-00	CARBON	15K		1/8W	
R125	1-246-799-00	CARBON	22K		1/8W	
R126	1-246-784-00	CARBON	1.2K		1/8W	
R127	1-246-797-00	CARBON	15K		1/8W	
R128	1-246-795-00	CARBON	10K		1/8W	
R129	1-246-795-00	CARBON	10K		1/8W	
R130	1-247-048-00	CARBON	390K		1/8W	
R131	1-202-472-00	COMPOSITION	5.1M	5%	1/4W	
R132	1-246-778-00	CARBON	390		1/8W	
R133	1-246-791-00	CARBON	4.7K		1/8W	
R134	1-246-807-00	CARBON	100K		1/8W	
R135	1-246-852-00	CARBON	5.1K		1/8W	
R136	1-246-799-00	CARBON	22K		1/8W	
R137	1-246-794-00	CARBON	8.2K		1/8W	
R138	1-246-843-00	CARBON	910		1/8W	
R139	1-246-783-00	CARBON	1K		1/8W	
R140	1-246-803-00	CARBON	47K		1/8W	
R141	1-246-804-00	CARBON	56K		1/8W	
R142	1-246-811-00	CARBON	220K		1/8W	
R148	1-246-800-00	CARBON	27K		1/8W	
R149	1-246-855-00	CARBON	9.1K		1/8W	
R150	1-246-785-00	CARBON	1.5K		1/8W	
R151	1-246-783-00	CARBON	1K		1/8W	
R152	1-246-829-00	CARBON	62		1/8W	
R153	1-246-791-00	CARBON	4.7K		1/8W	
R154	1-246-782-00	CARBON	820		1/8W	
R155	1-246-864-00	CARBON	51K		1/8W	
R156	1-246-795-00	CARBON	10K		1/8W	
R157	1-246-775-00	CARBON	220		1/8W	
R158	1-246-792-00	CARBON	5.6K	5%	1/8W	
R159	1-246-807-00	CARBON	100K	5%	1/8W	
R160	1-246-797-00	CARBON	15K	5%	1/8W	
R161	1-246-804-00	CARBON	56K	5%	1/8W	
R162	1-246-771-00	CARBON	100		1/8W	
R163	1-246-791-00	CARBON	4.7K		1/8W	
R164	1-246-795-00	CARBON	10K	5%	1/8W	
R165	1-246-863-00	CARBON	43K		1/8W	
R166	1-246-792-00	CARBON	5.6K		1/8W	
R167	1-246-795-00	CARBON	10K	5%	1/8W	
R168	1-246-799-00	CARBON	22K	5%	1/8W	
R169	1-246-849-00	CARBON	3K		1/8W	
R170	1-246-852-00	CARBON	5.1K		1/8W	
R171	1-246-847-00	CARBON	2K		1/8W	
R172	1-246-865-00	CARBON	62K		1/8W	
R173	1-246-795-00	CARBON	10K		1/8W	
R174	1-246-865-00	CARBON	62K		1/8W	
R175	1-246-801-00	CARBON	33K		1/8W	
R176	1-246-804-00	CARBON	56K		1/8W	
R177	1-246-811-00	CARBON	220K	5%	1/8W	

VARIABLE RESISTOR

Ref.No.	Part No.	Description				Remark
RV101	1-224-254-XX	RES, ADJ, METAL GLAZE 47K				
RV102	1-224-253-XX	RES, ADJ, METAL GLAZE 22K				

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
	1-600-101-00	FG-1 BOARD **********	
	3-658-161-03	HOLDER, DME	
	♠:3-659-313-00	PLATE, ADJUSTMENT, DME	

SEMICONDUCTOR

Ref.No.	Part No.	Description	Remark
DM701	8-749-016-01	DM-106A	

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Ref.No.	Part No.	Description	Remark
	1-601-762-00	CN-5 BOARD **********	
	♠:1-508-734-00	PIN, CONNECTOR 3P	
	1-552-665-00	SWITCH, MICRO	

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Ref.No.	Part No.	Description	Remark
	♠:A-6728-124-A	TM-13 BOARD, COMPLETE *********************	

CAPACITOR

Ref.No.	Part No.	Description				Remark
C001	1-123-332-00	ELECT	47MF	20%	16V	
C002	1-123-328-00	ELECT	4.7MF	20%	25V	
C003	1-123-356-00	ELECT	10MF	20%	16V	
C004	1-123-356-00	ELECT	10MF	20%	16V	
C005	1-123-330-00	ELECT	22MF	20%	16V	
C006	1-123-356-00	ELECT	10MF	20%	16V	
C007	1-123-356-00	ELECT	10MF	20%	16V	
C008	1-123-356-00	ELECT	10MF	20%	16V	
C009	1-123-356-00	ELECT	10MF	20%	16V	
C010	1-123-356-00	ELECT	10MF	20%	16V	
C011	1-123-328-00	ELECT	4.7MF	20%	25V	
C012	1-123-654-00	CERAMIC	47MF	20%	16V	
C013	1-123-379-00	ELECT	0.47MF	20%	50V	
C014	1-123-379-00	ELECT	0.47MF	20%	50V	
C016	1-123-332-00	ELECT	47MF	20%	16V	
C017	1-123-330-00	ELECT	22MF	20%	16V	
C018	1-101-005-00	CERAMIC	0.022MF		50V	
C019	1-123-356-00	ELECT	10MF	20%	25V	

CONNECTOR

Ref.No.	Part No.	Description	Remark
CN001♠:	1-508-743-00	PIN, CONNECTOR 5P	
CN002♠:	1-508-797-00	PIN, CONNECTOR 4P	
CN003♠:	1-508-742-00	PIN, CONNECTOR 3P	

DIODE

Ref.No.	Part No.	Description	Remark
D001	8-719-901-33	DIODE 1SS133	
D002	8-719-901-33	DIODE 1SS133	
D003	8-719-815-55	DIODE 1S1555	
D004	8-719-815-55	DIODE 1S1555	
D005	8-719-901-33	DIODE 1SS133	
D006	8-719-901-33	DIODE 1SS133	
D007	8-719-901-33	DIODE 1SS133	
D008	8-719-901-33	DIODE 1SS133	
D009	8-719-901-33	DIODE 1SS133	
D010	8-719-901-33	DIODE 1SS133	
D011	8-719-901-33	DIODE 1SS133	
D012	8-719-901-33	DIODE 1SS133	
D013	8-719-901-33	DIODE 1SS133	
D014	8-719-815-55	DIODE 1S1555	
D015	8-719-901-33	DIODE 1SS133	
D016	8-719-815-55	DIODE 1S1555	
D017	8-719-901-33	DIODE 1SS133	

IC

Ref.No.	Part No.	Description	Remark
IC001	8-759-240-01	IC TC4001BP	
IC002	8-759-240-01	IC TC4001BP	
IC003	8-759-240-11	IC TC4011BP	
IC004	8-759-240-25	IC TC4025BP	
IC005	8-759-240-81	IC TC4081BP	

TRANSISTOR

Ref.No.	Part No.	Description	Remark
Q001	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q003	=>8-729-606-33	TRANSISTOR 2SC2603-F	
Q004	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q005	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q006	=>8-729-612-77	TRANSISTOR 2SA1027R	
Q007	=>8-769-200-30	TRANSISTOR 2SK107-3	
Q008	=>8-769-200-30	TRANSISTOR 2SK107-3	

RESISTOR

Ref.No.	Part No.	Description				Remark
R001	1-246-537-00	CARBON	470K	5%	1/4W	
R002	1-246-449-00	CARBON	100	5%	1/4W	
R003	1-246-797-00	CARBON	15K		1/8W	
R005	1-246-868-00	CARBON	110K		1/8W	
R006	1-246-801-00	CARBON	33K		1/8W	
R007	1-246-868-00	CARBON	110K		1/8W	
R008	1-246-801-00	CARBON	33K		1/8W	
R009	1-246-868-00	CARBON	110K		1/8W	
R011	1-246-868-00	CARBON	110K		1/8W	
R012	1-246-791-00	CARBON	4.7K		1/8W	
R013	1-246-840-00	CARBON	510		1/8W	
R014	1-246-801-00	CARBON	33K		1/8W	
R015	1-246-868-00	CARBON	110K		1/8W	
R016	1-246-801-00	CARBON	33K		1/8W	
R017	1-246-801-00	CARBON	33K		1/8W	
R018	1-246-801-00	CARBON	33K		1/8W	
R019	1-246-801-00	CARBON	33K		1/8W	
R020	1-246-795-00	CARBON	10K		1/8W	
R022	1-246-533-00	CARBON	330K	5%	1/4W	
R023	1-246-480-00	CARBON	2K	5%	1/4W	
R024	1-246-795-00	CARBON	10K		1/8W	
R025	1-246-868-00	CARBON	110K		1/8W	
R026	1-246-796-00	CARBON	12K		1/8W	
R027	1-246-783-00	CARBON	1K		1/8W	
R028	1-246-801-00	CARBON	33K		1/8W	

When indicating parts by reference number, please include the board name.

TM-13 | TM-15

Ref.No.	Part No.	Description				Remark
R029	1-246-868-00	CARBON	110K		1/8W	
R030	1-246-801-00	CARBON	33K		1/8W	
R031	1-246-794-00	CARBON	8.2K		1/8W	
R032	1-246-794-00	CARBON	8.2K		1/8W	
R033	1-246-868-00	CARBON	110K		1/8W	
R034	1-246-801-00	CARBON	33K		1/8W	
R035	1-246-795-00	CARBON	10K		1/8W	
R036	1-246-474-00	CARBON	1.1K	5%	1/4W	
	1-246-844-00	CARBON	1.1K		1/8W	
R037	1-246-807-00	CARBON	100K		1/8W	
R038	1-246-868-00	CARBON	110K		1/8W	
R039	1-246-801-00	CARBON	33K		1/8W	
R040	1-246-795-00	CARBON	10K		1/8W	
R041	1-246-497-00	CARBON	10K	5%	1/4W	
R042	1-246-868-00	CARBON	110K		1/8W	
R043	1-246-861-00	CARBON	30K		1/8W	
R045	1-246-456-00	CARBON	200	5%	1/4W	
R046	1-246-538-00	CARBON	510K	5%	1/4W	
R047	1-246-788-00	CARBON	2.7K		1/8W	
R048	1-246-783-00	CARBON	1K		1/8W	

SWITCH

Ref.No.	Part No.	Description
SW001	1-552-438-00	SWITCH, KEY
SW002	1-552-663-00	SWITCH, MICRO
SW002	1-552-664-00	SWITCH, MICRO
SW003	1-516-777-XX	SLIDE SWITCH
SW005	1-552-787-00	SWITCH, LEVER
SW006	1-516-994-00	SWITCH, LEVER SLIDE
SW007	1-552-438-00	SWITCH, KEY
SW008	1-552-438-00	SWITCH, KEY
SW009	1-552-438-00	SWITCH, KEY
SW010	1-552-438-00	SWITCH, KEY
SW011	1-552-438-00	SWITCH, KEY
SW012	1-552-438-00	SWITCH, KEY
SW013	1-552-438-00	SWITCH, KEY
SW014	1-552-438-00	SWITCH, KEY
SW015	1-552-438-00	SWITCH, KEY
SW016	1-552-438-00	SWITCH, KEY
SW017	1-552-438-00	SWITCH, KEY

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♠:A-6728-126-C TM-15 BOARD, COMPLETE
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Part No.	Description
1-519-174-00	INDICATOR, TUBE
1-519-174-21	INDICATOR TUBE, FLUORESCENT
3-659-684-00	HOLDER, POWER LAMP
3-659-685-00	HOLDER (B), LED
♠:3-659-686-00	HOLDER, INDICATION TUBE

DIODE

Ref.No.	Part No.	Description
D201	=>8-719-821-14	DIODE TLR114A
D202	=>8-719-811-44	DIODE TLG114A
D203	8-719-812-31	DIODE TLR123
D204	8-719-812-31	DIODE TLR123
D205	8-719-812-31	DIODE TLR123
D206	8-719-812-31	DIODE TLR123
D207	8-719-812-31	DIODE TLR123
D208	8-719-812-31	DIODE TLR123
D209	8-719-812-31	DIODE TLR123

TRANSISTOR

Ref.No.	Part No.	Description
Q201	=>8-729-606-33	TRANSISTOR 2SC2603-F
Q202	=>8-729-606-33	TRANSISTOR 2SC2603-F
Q203	=>8-729-606-33	TRANSISTOR 2SC2603-F
Q204	=>8-729-606-33	TRANSISTOR 2SC2603-F
Q205	=>8-729-606-33	TRANSISTOR 2SC2603-F
Q206	=>8-729-606-33	TRANSISTOR 2SC2603-F
Q207	8-729-606-33	TRANSISTOR 2SC2603-F
Q208	8-729-606-33	TRANSISTOR 2SC2603-F

RESISTOR

Ref.No.	Part No.	Description				Remark
R201	1-246-795-00	CARBON	10K		1/8W	
R202	1-246-779-00	CARBON	470		1/8W	
R203	1-246-795-00	CARBON	10K		1/8W	
R204	1-246-779-00	CARBON	470		1/8W	
R205	1-246-499-00	CARBON	12K	5%	1/4W	
R206	1-246-499-00	CARBON	12K	5%	1/4W	
R207	1-246-499-00	CARBON	12K	5%	1/4W	
R208	1-246-499-00	CARBON	12K	5%	1/4W	
R209	1-246-513-00	CARBON	47K	5%	1/4W	
R210	1-246-795-00	CARBON	10K		1/8W	
R211	1-246-521-00	CARBON	100K	5%	1/4W	
R212	1-246-521-00	CARBON	100K	5%	1/4W	
R213	1-246-521-00	CARBON	100K	5%	1/4W	
R214	1-246-521-00	CARBON	100K	5%	1/4W	
R215	1-246-521-00	CARBON	100K	5%	1/4W	
R216	1-246-521-00	CARBON	100K	5%	1/4W	
R217	1-246-521-00	CARBON	100K	5%	1/4W	
R218	1-246-521-00	CARBON	100K	5%	1/4W	
R219	1-246-521-00	CARBON	100K	5%	1/4W	
R220	1-246-521-00	CARBON	100K	5%	1/4W	
R221	1-246-521-00	CARBON	100K	5%	1/4W	
R222	1-246-521-00	CARBON	100K	5%	1/4W	
R223	1-246-473-00	CARBON	1K	5%	1/4W	
R224	1-246-499-00	CARBON	12K	5%	1/4W	
R225	1-246-473-00	CARBON	1K	5%	1/4W	
R226	1-246-480-00	CARBON	2K	5%	1/4W	
R227	1-246-847-00	CARBON	2K	5%	1/8W	
R228	1-246-847-00	CARBON	2K	5%	1/8W	
R229	1-246-847-00	CARBON	2K	5%	1/8W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
	♠:1-602-378-19	TM-14 BOARD ***********			

CAPACITOR

Ref.No.	Part No.	Description			Remark
C102	1-107-077-00	MICA	47PF	5%	50V
C105	1-123-324-00	ELECT	1000MF	20%	16V
C106	1-102-973-00	CERAMIC	100PF	5%	50V
C107	1-123-356-00	ELECT	10MF	20%	16V
C108	1-101-880-00	CERAMIC	47PF	5%	50V
C109	1-161-494-00	CERAMIC	0.022MF	30%	25V

TRIMMER

Ref.No.	Part No.	Description
CV101	1-141-228-00	CAP, TRIMMER

DIODE

Ref.No.	Part No.	Description
D104	8-719-815-55	DIODE 1S1555
D105	8-719-162-07	DIODE RD6.2E-B
D106	8-719-815-55	DIODE 1S1555
D107	8-719-815-55	DIODE 1S1555
D108	8-719-815-55	DIODE 1S1555
D109	8-719-815-55	DIODE 1S1555
D110	8-719-815-55	DIODE 1S1555
D111	8-719-815-55	DIODE 1S1555
D112	8-719-815-55	DIODE 1S1555
D113	8-719-815-55	DIODE 1S1555
D114	8-719-815-55	DIODE 1S1555
D115	8-719-815-55	DIODE 1S1555
D116	8-719-815-55	DIODE 1S1555
D117	8-719-815-55	DIODE 1S1555

IC

Ref.No.	Part No.	Description
IC101	8-759-927-07	IC MP2707A
IC102	8-759-684-78	IC M58478P

TRANSISTOR

Ref.No.	Part No.	Description
Q103	=>8-729-612-77	TRANSISTOR 2SA1027R
Q104	=>8-729-194-57	TRANSISTOR 2SC945-P

RESISTOR

Ref.No.	Part No.	Description			Remark
R102	1-246-797-00	CARBON	15K		1/8W
R103	1-246-804-00	CARBON	56K		1/8W
R105	1-246-521-00	CARBON	100K	5%	1/4W
R106	1-246-521-00	CARBON	100K	5%	1/4W
R107	1-246-521-00	CARBON	100K	5%	1/4W
R114	1-246-521-00	CARBON	100K	5%	1/4W
R115	1-246-513-00	CARBON	47K	5%	1/4W
R116	1-246-807-00	CARBON	100K		1/8W
R117	1-246-521-00	CARBON	100K	5%	1/4W
R119	1-246-807-00	CARBON	100K		1/8W
R120	1-246-847-00	CARBON	2K	5%	1/8W
R121	1-246-847-00	CARBON	2K	5%	1/8W
R122	1-246-847-00	CARBON	2K	5%	1/8W

VARIABLE RESISTOR

Ref.No.	Part No.	Description
RV101	1-224-253-XX	RES, ADJ, SOLID 22K

SWITCH

Ref.No.	Part No.	Description
SW101	1-552-823-00	SWITCH, PUSH

CRYSTAL

Ref.No.	Part No.	Description
X101	1-527-345-00	CRYSTAL, OSC

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SR-09 BOARD

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Ref.No.	Part No.	Description		Remark
	♠:9-982-014-00	SR-09-1 BOARD *************		
	♠:9-982-015-00	SR-09-2 BOARD *************		

CAPACITOR

Ref.No.	Part No.	Description		Remark
C101 ⚠	1-130-238-00	FILM	0.22MF	AC 300V
C102 ⚠	1-130-238-00	FILM	0.22MF	AC 300V
C103	1-161-734-00	CERAMIC	2200PF	AC 400V
C104	1-161-734-00	CERAMIC	2200PF	AC 400V
C106 ⚠	.1-161-737-00	CERAMIC	1000PF	AC 400V
C107	1-129-714-00	FILM	0.01MF	630V
C108	1-123-581-00	ELECT	100MF	400V
C121	1-123-581-00	ELECT	100MF	400V
C122	1-123-007-00	ELECT	4.7MF	350V
C123	1-123-007-00	ELECT	4.7MF	350V
C201	1-123-362-00	ELECT	330MF	50V
C202	1-123-325-00	ELECT	2200MF	16V
C203	1-123-319-00	ELECT	47MF	16V
C204	1-123-320-00	ELECT	100MF	16V
C205	1-108-234-00	FILM	4700PF	50V
C206	1-108-242-00	FILM	0.022MF	50V
C207	1-123-344-00	ELECT	47MF	35V
C221A	1-108-377-00	FILM	0.01MF	100V
C221B	1-108-377-00	FILM	0.01MF	100V
C222	1-161-063-00	CERAMIC	0.1MF	50V
C223	1-123-319-00	ELECT	47MF	16V
C224	1-130-479-00	FILM	4700PF	50V
C225	1-130-479-00	FILM	4700PF	50V
C226	1-130-479-00	FILM	4700PF	50V
C227	1-108-246-00	FILM	0.047MF	50V
C228	1-130-512-00	FILM	4700PF	50V
C229	1-123-324-00	ELECT	1000MF	16V
C230	1-123-324-00	ELECT	1000MF	16V
C231	1-108-239-00	FILM	0.01MF	50V
C232	1-108-239-00	FILM	0.01MF	50V

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

SR-09

Ref.No.	Part No.	Description			Remark
		DIODE			
D1	8-719-504-40	DIODE S4VB40			
D21	=>8-719-500-04	DIODE S1WB10			
D22	=>8-719-191-77	DIODE RD9.1E-C			
D23	=>8-719-168-07	DIODE RD6.8E-B			
D26	=>8-719-815-85	DIODE 1S1585			
D31	=>8-719-550-01	DIODE S5KC20			
D32	8-719-923-48	DIODE 1S2348H			
D33	=>8-719-300-38	DIODE GU3A			
D34	=>8-719-115-07	DIODE RD15E-B			
D35	=>8-719-815-85	DIODE 1S1585			
D36	=>8-719-815-85	DIODE 1S1585			
D37	=>8-719-815-85	DIODE 1S1585			
D38	=>8-719-815-85	DIODE 1S1585			
		IC			
IC1	8-759-937-59	IC MB3759			
		TRANSISTOR			
Q11	=>8-729-925-02	TRANSISTOR 2SC2502			
Q12	=>8-729-925-02	TRANSISTOR 2SC2502			
Q21	=>8-729-157-11	TRANSISTOR 2SD571			
Q22	=>8-729-157-11	TRANSISTOR 2SD571			
Q23	=>8-729-663-47	TRANSISTOR 2SC1364			
Q24	=>8-729-663-47	TRANSISTOR 2SC1364			
Q25	=>8-729-663-47	TRANSISTOR 2SC1364			
Q26	=>8-729-157-11	TRANSISTOR 2SD571			
Q27	=>8-729-663-47	TRANSISTOR 2SC1364			
		RESISTOR			
R101	1-217-255-00	WIRE WOUND	3.3	3W	
R201	1-246-493-00	CARBON	6.8K	1/4W	
R202	1-246-473-00	CARBON	1K	1/4W	
R203	1-244-857-00		220	1/2W	
R204	1-246-429-00		15	1/4W	
R205	1-247-587-00		0.5	1/4W	
R206	1-246-497-00	CARBON	10K	1/4W	
R206	1-246-503-00	CARBON	18K	1/4W	
R207	1-246-497-00	CARBON	10K	1/4W	
R208	1-246-503-00	CARBON	18K	1/4W	
R209	1-246-473-00	CARBON	1K	1/4W	
R210	1-246-479-00	CARBON	1.8K	1/4W	
R211	1-246-489-00	CARBON	4.7K	1/4W	
R221	1-244-831-00		18	1/2W	
R222	1-217-596-00	METAL	0.05	2W	
R223	1-246-491-00	CARBON	5.6K	1/4W	
R224A	1-246-523-00	CARBON	120K	1/4W	
R224B	1-246-523-00	CARBON	120K	1/4W	
R225	1-246-531-00	CARBON	270K	1/4W	
R226	1-246-491-00	CARBON	5.6K	1/4W	
R227	1-246-531-00	CARBON	270K	1/4W	
R228	1-246-489-00	CARBON	4.7K	1/4W	

Ref.No.	Part No.	Description			Remark
R229	1-246-477-00	CARBON	1.5K	1/4W	
R230	1-246-491-00	CARBON	5.6K	1/4W	
R231	1-246-487-00	CARBON	3.9K	1/4W	
R232	1-246-481-00	CARBON	2.2K	1/4W	
R233	1-246-465-00	CARBON	470	1/4W	
R234	1-246-483-00	CARBON	2.7K	1/4W	
R235	1-244-841-00	CARBON	47	1/2W	
R236	1-246-497-00	CARBON	10K	1/4W	
		RELAY			
RL1	1-515-215-00	RELAY			
		VARIABLE RESISTOR			
RV1	1-226-852-00		20K		
RV2	1-224-660-00		2K		
RV3	1-226-428-00		1K		
		TRANSFORMER			
T1	⚠ 1-446-932-00				
T2	1-421-439-00				
T3	1-421-439-00				
T4	⚠ 1-421-438-00				
T5	⚠ 1-437-097-00				
T6	⚠ 1-446-933-00				
T7	9-982-008-00				
T8	9-982-009-00				
T9	9-982-010-00				
T10	9-982-007-00				
		THERMISTOR			
TH201	1-800-197-00	S-400			

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MISCELLANEOUS
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Ref.No.	Part No.	Description	Remark
	A-6737-096-A	MOTOR ASSY, CAPSTAN	
	⚠ 1-413-050-16	REGULATOR, SWITCHING (SR-09)	
	1-464-105-00	MODULATOR, RF	
	1-548-534-00	COUNTOR	
	1-552-664-00	SWITCH, MICRO	
	1-553-291-00	SWITCH, ANTENNA CHANGE	
	⚠ 1-555-628-00	CORD, POWER	
F001	⚠ 1-532-285-00	FUSE, TIME-LAG (1.25AT)	
F002	⚠ 1-532-350-00	FUSE, TIME-LAG (4AT)	
F003	⚠ 1-532-286-00	FUSE, TIME-LAG (2.5AT)	
F006	⚠ 1-532-237-00	FUSE, TIME-LAG (3.15AT)	
L9501	1-543-145-21	HEAD, SENSING	
L9502	1-543-145-21	HEAD, SENSING	
S9501	1-552-663-00	SWITCH, MICRO (CASSETTE IN)	
S9502	1-552-665-00	SWITCH, MICRO (THREADING END)	
S9503	1-552-822-00	SWITCH, SLIDE (MEMORY)	
S9504	⚠ 1-553-318-00	SWITCH, PUSH (AC POWER)	
SL9501	1-454-213-12	SOLENOID, PLUNGER (EJECT)	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
SL9502	1-454-216-00	SOLENOID, PLUNGER (REVIEW)	
SL9503	1-454-215-00	SOLENOID, PLUNGER (CUE)	
SL9504	1-454-214-00	SOLENOID, PLUNGER (FWD)	
SL9505	1-454-217-00	SOLENOID, PLUNGER (PINCH)	
SL9507	1-454-229-00	SOLENOID, PLUNGER (SELECT)	

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ACCESSORIES AND PACKING MATERIALS

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Part No.	Description	Remark
1-551-513-21	CABLE, COAXAL ASSY	
3-656-390-00	BAG, PROTECTION	
3-662-327-00	CASE, ACCESSORY	
3-662-328-00	CUSHION (LEFT UPPER)	
3-662-329-00	CUSHION (RIGHT UPPER)	
3-662-358-00	CUSHION (FRONT LOWER)	
3-662-359-00	CUSHION (REAR LOWER)	
3-662-364-00	BAG, PROTECTION	
3-663-225-00	INDICATOR (CCIR)	
3-663-228-00	COVER, DUST	
3-663-223-00	INDICATOR (C), 8 channel	
3-663-240-00	STICKER, ANIMAL	
3-672-043-00	INDIVIDUAL CARTON	
3-672-428-00	BAG, PROTECTION	
3-773-296-41	MANUAL, INSTRUCTION	
3-794-828-51	MANUAL, INSTANT INFORMATION	
3-795-531-41	MANUAL, INSTANT INFORMATION	

When indicating parts by reference number, please include the board name.

RMR-214K

SERVICE MANUAL

Betamax
WIRELESS REMOTE CONTROL RECEIVER
REW
PLAY
FF
STOP
PAUSE
SONY
REMOTE COMMANDER

SPECIFICATIONS

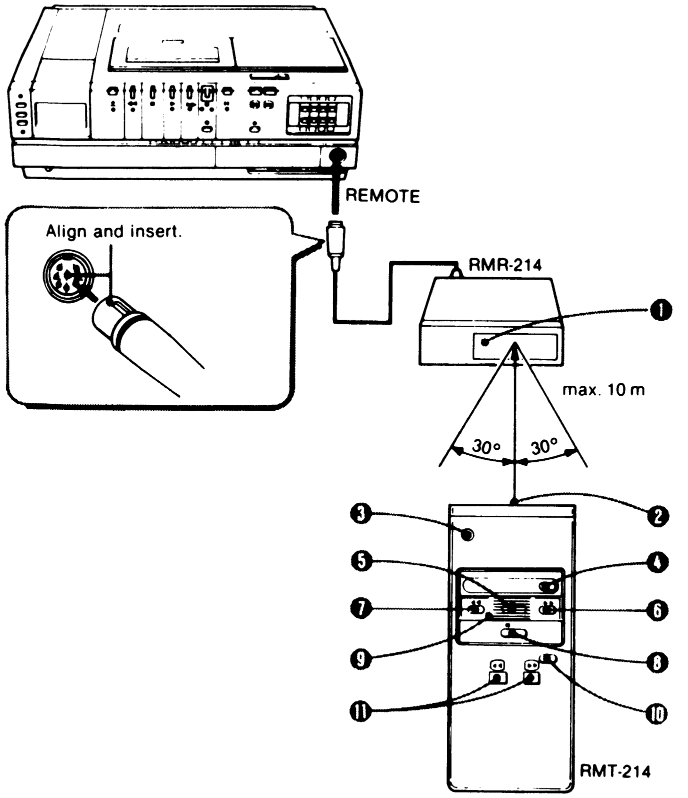
Remote control system		Infrared control
Power requirements		3 V dc, 2 IEC designation R6 batteries (size AA)
Dimensions	Commander :	Approx. 65 × 150 × 18 mm (w/h/d) ($2^5/_8$ × 6 × $^3/_4$ inches)
	Receiver :	Approx. 75 × 22 × 110 mm (w/h/d) (3 × $^7/_8$ × $4^3/_8$ inches) incl. projecting parts
Cord length		1 m ($6^1/_2$ feet)
Weight	Commander :	Approx. 100 g (3.5 oz), not incl. batteries
	Receiver :	Approx. 145 g (5.1 oz)
Finish		Gold Silver
Supplied accessory		Two strips of double-sided adhesive tape (To attach the receiver to the side of the video cassette recorder, if required)

WIRELESS REMOTE CONTROL KIT

SONY®

1. GENERAL

The Sony RMR-214K is a wireless remote control kit for use with the Sony SL-T7ME, SL-T7MER, SL-T9ME and SL-T9MER video cassette recorders. The RMR-214K consists of the RMR-214 remote control receiver and the RMT-214 Remote Commander.
The function of the function buttons on the Remote Commander is in most cases the same as that of the corresponding button on the recorder.


REMOTE
Align and insert.
RMR-214
❶
max. 10 m
30°
30°
❷
❸
❹
❺
❻
❼
❽
❾
❿
⓫
RMT-214

2. CONNECTION AND OPERATION

Connect the RMR-214 remote control receiver to a SL-T7ME, SL-T7MER, SL-T9ME or SL-T9MER video cassette recorder as illustrated. Then turn on the video cassette recorder and insert a cassette before operating the kit.
The function of each part and button is as follows :

❶ Remote control detector
Receives the command (infrared signal) from the RMT-214.

❷ Infrared transmitter
Sends the command (infrared signal) to the RMR-214.

❸ Indicator
Lights up when any of the buttons on the RMT-214 is pressed.

❹ ● REC (record) button
Press to start recording.

❺ ▶ PLAY button
Press to start playback of the tape.

❻ ▶▶ FF (fast forward) button
Press to advance the tape rapidly.

❼ ◀◀ REW (rewind) button
Press to rewind the tape.

❽ ■ STOP button
Press to stop recording or playback.

❾ Sliding cover
During playback slide this cover over the ● REC button to prevent accidental recording. During recording, slide this cover down to prevent accidental interruption of recording.

❿ ❚❚ PAUSE button
Press to stop the tape for a moment. To restart, press the button again.
The pause mode will be automatically released after about 8 minutes.

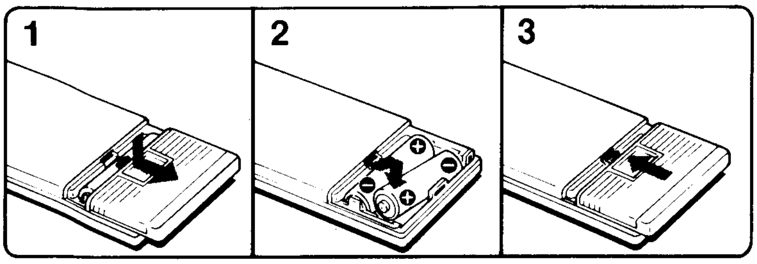
⓫ PICTURE SEARCH buttons [⏩] and [⏪]
Press the ⏩ side for high-speed forward playback or the ⏪ side for high-speed reverse playback. Release to get normal playback.

Notes on operation

- Do not connect the 8-pin plug of the RMR-214 remote control receiver to a video cassette recorder other than the SL-T7ME, SL-T7MER and SL-T9ME, SL-T9MER.
- There should be no obstacles between the Remote Rommander and the remote control receiver.
- The shorter the distance between the Remote Commander and the receiver, the wider the angle within which the video cassette recorder can be controlled.

3. BATTERY INSTALLATION

1. Open the lid.
2. Insert two IEC designation R6 batteries (size AA) with correct polarity.
3. Close the lid firmly.



In normal operation, batteries will last for about six months. If the range of the Remote Commander becomes noticeably short, or when the output indicator will not light when the buttons on the Remote Commander are pressed, replace all the batteries with new ones.

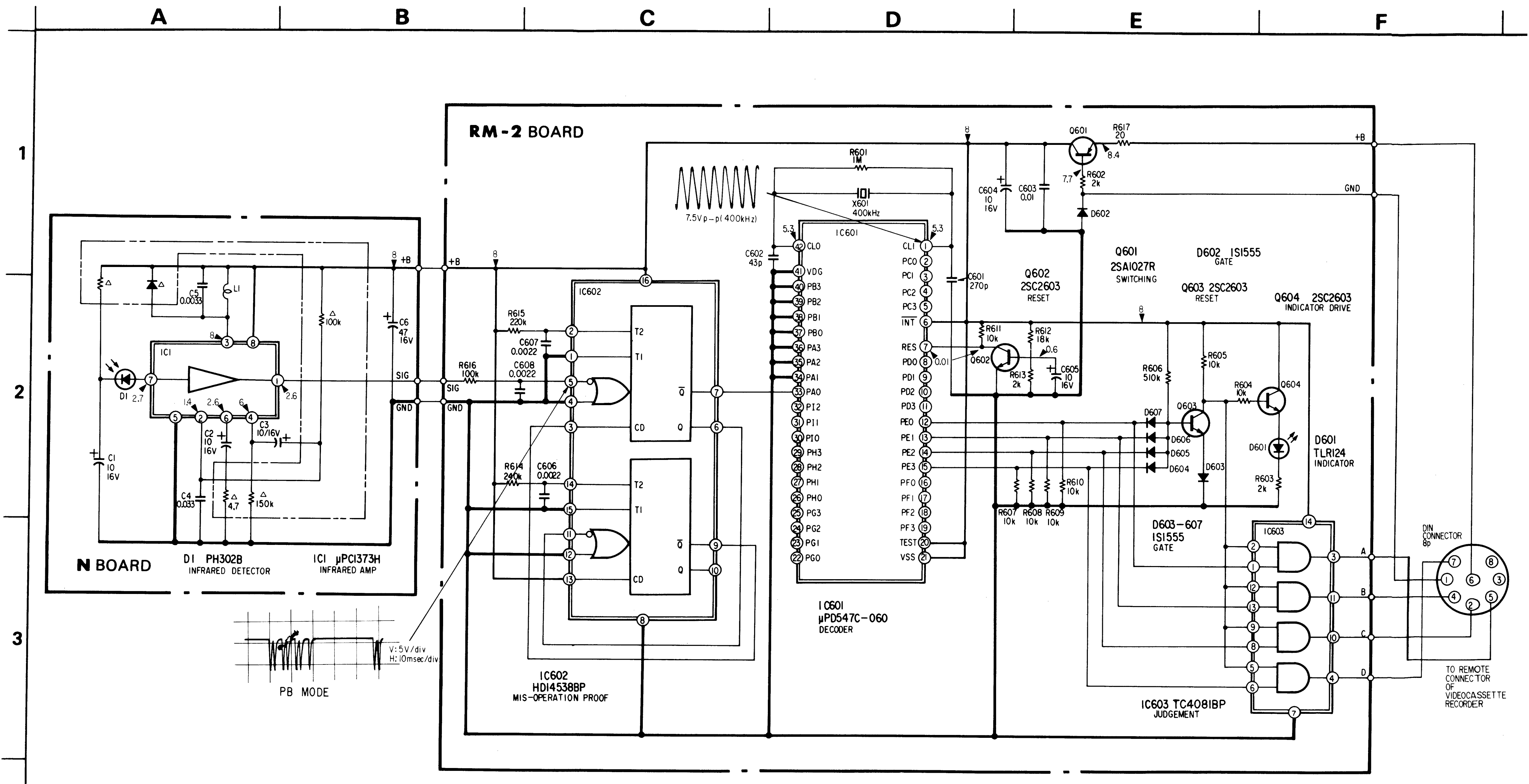
If the Remote Commander is not to be used for a long period of time, remove the batteries to avoid possible damage from battery leakage.

Notes on the Remote Commander

- Avoid dropping foreign objects into the cabinet, particularly when replacing batteries.
- Keep the kit away from extremely hot or humid places.
- Avoid mechanical shock to the kit.
- This Remote Commander may be used only with the RMR-214 and the SL-T7ME, SL-T9ME or SL-T9MER video cassette recorders.

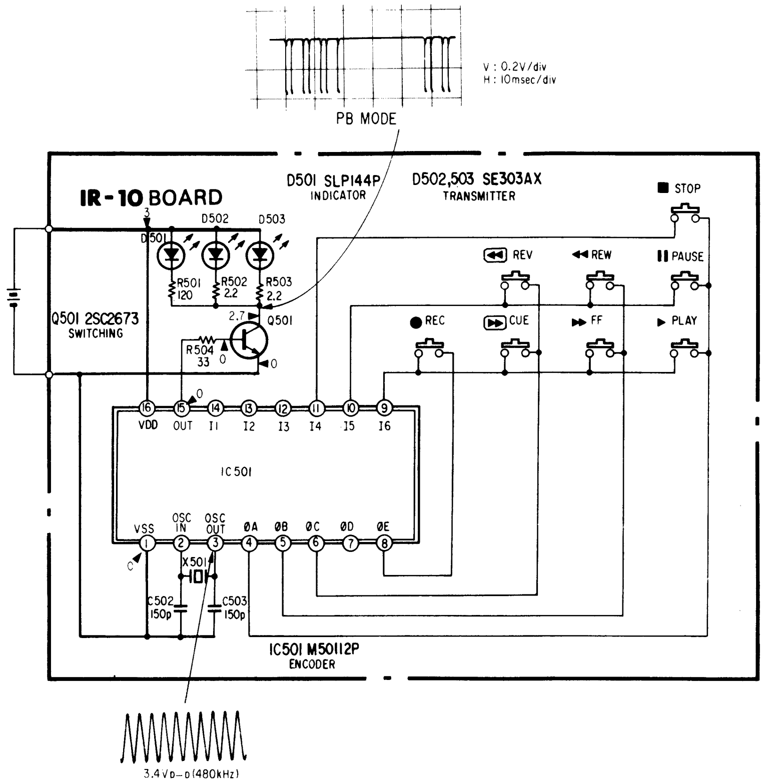
4. SCHEMATIC DIAGRAM (RMR-214)

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu$F 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/8W unless otherwise noted. k: 1000Ω, M: 1000kΩ
- △ : internal component.
- ☐ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- —— : B+ bus.


A
B
C
D
E
F
1
2
3
N BOARD
D1 PH302B
INFRARED DETECTOR
IC1 μPC1373H
INFRARED AMP
RM-2 BOARD
IC602
HD14538BP
MIS-OPERATION PROOF
IC601
μPD547C-060
DECODER
X601
400kHz
7.5Vp-p(400kHz)
Q601
2SA1027R
SWITCHING
Q602 2SC2603
RESET
Q603 2SC2603
RESET
Q604 2SC2603
INDICATOR DRIVE
D602 1S1555
GATE
D603-607
1S1555
GATE
D601
TLR124
INDICATOR
IC603 TC4081BP
JUDGEMENT
DIN CONNECTOR
8P
TO REMOTE CONNECTOR OF VIDEOCASSETTE RECORDER
PB MODE
V: 5V/div
H: 10msec/div
+B
SIG
GND

MODE \ PIN ON	IC601					IC602								IC603											Q603			Q604	
	⑫	⑬	⑭	⑮	㉝	②	③	⑤	⑥	⑦	⑨	⑪	⑭	①	②	③	④	⑤	⑥	⑧	⑨	⑩	⑪	⑫	E	C	B	E	B
NORMAL	8.1	8.1	8.1	8.1	8.3	8.1	8.3	7.8	0	8.3	8.3	0	8.1	8.1	0.6	0	0	0.6	8.1	8.1	0.6	0	0	0.6	0.6	0.6	1.1	0.5	0.6
REC	0.1	8.1	8.1	0.1	7.7	7.7	7.6	7.8	0.5	7.7	7.6	0.5	7.5	0.1	8.2	0	0	8.2	0.1	8.1	8.2	7.9	7.9	8.2	0.1	8.2	0.4	7.5	8
REW	0.1	8.1	0.1	0.1	7.7	7.7	7.6	6.8	0.5	7.7	7.6	0.5	7.5	0.1	8.2	0	0	8.2	0.1	0.1	8.2	0	7.9	8.2	0.1	8.2	0.4	7.5	8
PLAY	0.1	0.1	8.1	0.1	7.7	7.7	7.6	6.8	0.5	7.7	7.6	0.5	7.5	0.1	8.2	0	0	8.2	0.1	8.1	8.2	7.9	0	8.2	0.1	8.2	0.4	7.5	8
FF	8.1	0.1	8.1	0.1	7.7	7.7	7.6	6.8	0.5	7.7	7.6	0.5	7.5	8.1	8.2	7.9	0	8.2	0.1	8.1	8.2	7.9	0	8.2	0.1	8.2	0.4	7.5	8
STOP	8.1	8.1	0.1	0.1	7.7	7.7	7.6	6.8	0.5	7.7	7.6	0.5	7.5	8.1	8.2	7.9	0	8.2	0.1	0.1	8.2	0	7.9	8.2	0.1	8.2	0.4	7.5	8
PAUSE	8.1	0.1	0.1	8.1	7.7	7.7	7.6	6.8	0.5	7.7	7.6	0.5	7.5	8.1	8.2	7.9	7.9	8.2	8.1	0.1	8.2	0	0	8.2	0.1	8.2	0.4	7.5	8
PICTURE SEARCH ◀◀	0.1	0.1	8.1	8.1	7.7	7.7	7.6	6.8	0.5	7.7	7.6	0.5	7.5	0.1	8.2	0	7.9	8.2	8.1	8.1	8.2	7.9	0	8.2	0.1	8.2	0.4	7.5	8
▶▶	8.1	8.1	0.1	8.1	7.7	7.7	7.6	6.8	0.5	7.7	7.6	0.5	7.5	8.1	8.2	7.9	7.9	8.2	8.1	0.1	8.2	0	7.9	8.2	0.2	8.2	0.5	7.5	8

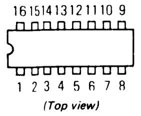
5. SCHEMATIC DIAGRAM (RMT-214)


V : 0.2V/div
H : 10msec/div
PB MODE
IR-10 BOARD
D501 SLP144P INDICATOR
D502,503 SE303AX TRANSMITTER
D501
D502
D503
R501 120
R502 2.2
R503 2.2
Q501 2SC2673 SWITCHING
Q501
R504 33
■ STOP
◀◀ REV
◀◀ REW
❚❚ PAUSE
● REC
▶▶ CUE
▶▶ FF
▶ PLAY
VDD
OUT
I1
I2
I3
I4
I5
I6
IC501
VSS
OSC IN
OSC OUT
ØA
ØB
ØC
ØD
ØE
X501
C502 150p
C503 150p
IC501 M50112P ENCODER
3.4Vp-p(480kHz)

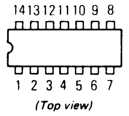
IC PIN / MODE		②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪
NORMAL		0	3.3	0	0	0	0	0	3.3	3.3	3.3
REC		1.2	1.5	2.7	2.7	2.7	2.7	2.7	2.7	3.3	3.3
REW		1.2	1.5	2.7	2.7	2.7	2.7	2.7	3.3	2.7	3.3
PLAY		1.2	1.5	2.7	2.7	2.7	2.7	2.7	2.7	3.3	3.3
FF		1.2	1.5	2.7	2.7	2.7	2.7	2.7	2.7	3.3	3.3
STOP		1.2	1.5	2.7	2.7	2.7	2.7	2.7	3.3	3.3	2.7
PAUSE		1.2	1.5	2.7	2.7	2.7	2.7	2.7	3.3	2.7	3.3
PICTURE SEARCH	◀◀	1.2	1.5	2.7	2.7	2.7	2.7	2.7	3.3	2.7	3.3
	▶▶	1.2	1.5	2.7	2.7	2.7	2.7	2.7	2.7	3.3	3.3

6. SEMICONDUCTORS (RMR-214, RMT-214)

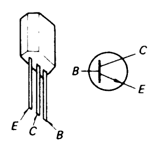
HD14538BP
M50112P


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

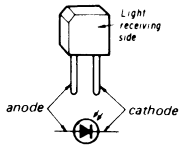
TC4081BP


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

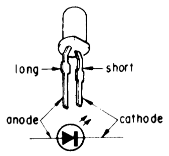
2SC2603



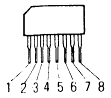
PH302B


Light receiving side
anode
cathode

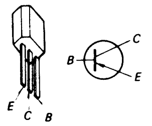
TLR124


long
short
anode
cathode

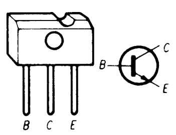
μPC1373H



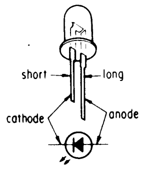
2SA1027R



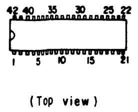
2SC2673



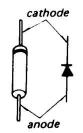
SE303AX


short
long
cathode
anode

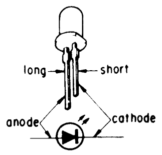
μPD547C-060


42 40 35 30 25 22
1 5 10 15 21
(Top view)

1S1555


cathode
anode

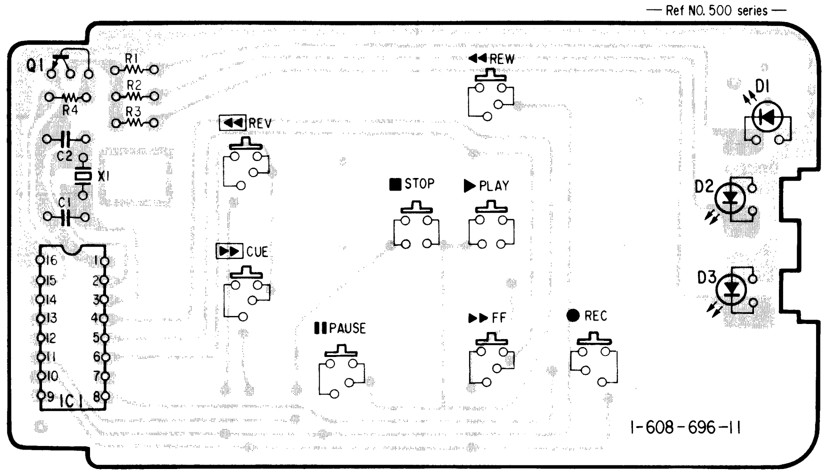
SLP144B


long
short
anode
cathode

7. PRINTED WIRING BOARDS

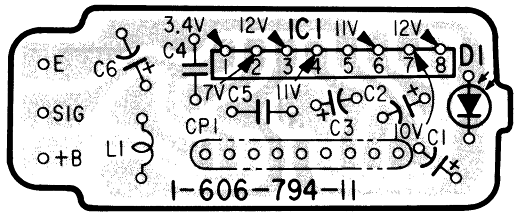
RMT-214

– IR-10 BOARD –

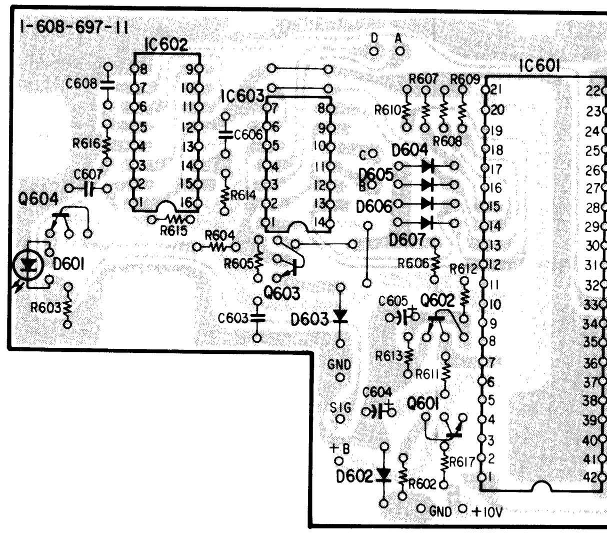

— Ref NO. 500 series —
Q1
R1
R2
R3
R4
C2
X1
C1
IC1
◀◀ REW
◀◀ REV
■ STOP
▶ PLAY
▶▶ CUE
❚❚ PAUSE
▶▶ FF
● REC
D1
D2
D3
1-608-696-11

RMR-214

– N BOARD –


3.4V
12V
IC1
11V
12V
C4
C6
D1
E
SIG
+B
7V
C5
11V
C2
CP1
C3
10V
C1
L1
1-606-794-11

– RM-2 BOARD –

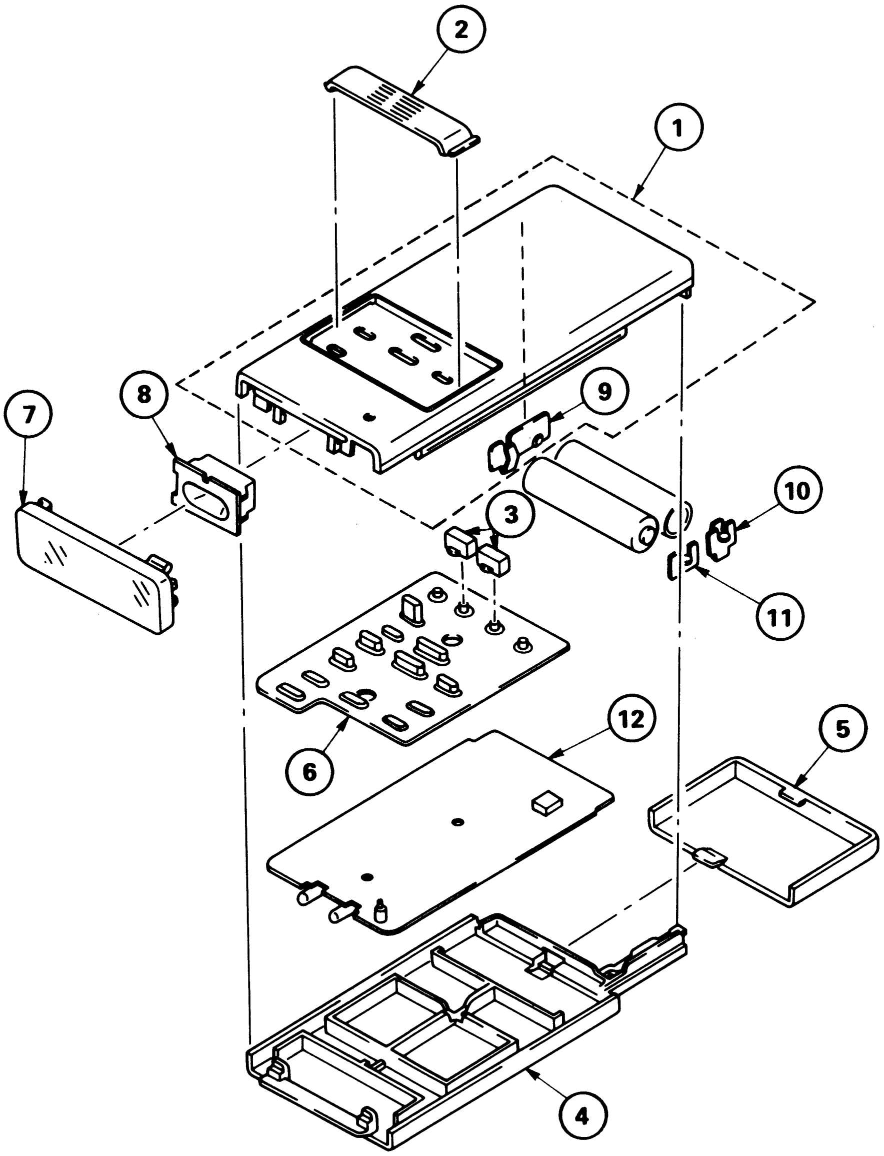

1-608-697-11
IC602
IC603
IC601
D
A
C608
R616
C607
Q604
D601
R603
C606
R614
R615
R604
R605
Q603
C603
D603
R607
R609
R610
R608
D604
D605
D606
D607
R606
R612
C605
Q602
R613
R611
C604
Q601
D602
R602
R617
GND
SIG
+B
GND
+10V
C602
C601
X601
R601

8. EXPLODED VIEWS

NOTE:

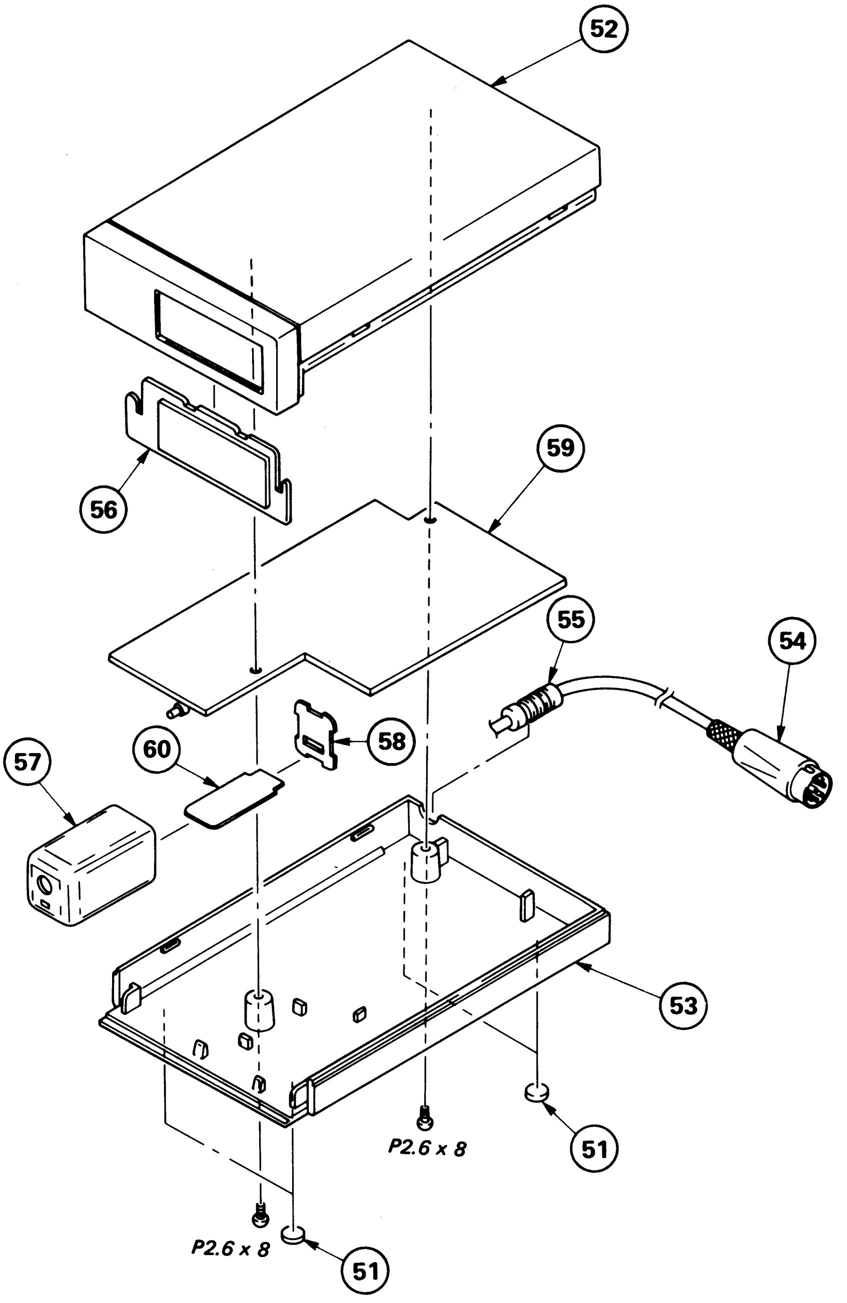
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

(1) RMT-214



No.	Part No.	Description	Remark
1	X-2374-602-1	CASE ASSY (T), UPPER	9
2	2-290-603-00	CURSOR	
3	2-290-604-11	PUSH BUTTON	
4	2-290-611-21	CASE, LOWER	
5	2-290-606-21	COVER, BATTERY	
6	2-374-603-00	SHEET (T), RUBBER	
7	2-290-608-00	PLATE, FROSTED	
8	2-298-402-00	MIRROR	
9	4-350-925-00	TERMINAL (C), BATTERY	
10	2-290-601-00	TERMINAL (A), BATTERY	
11	2-290-602-00	TERMINAL (B), BATTERY	
12	♦:1-608-696-00	IR-10 BOARD	

(2) RMR-214


52
59
56
55
54
57
60
58
53
P2.6 x 8
51
P2.6 x 8
51

No.	Part No.	Description	Remark
51	2-270-305-00	FOOT, RUBBER	
52	2-366-607-41	CASE (2), UPPER	
53	2-366-608-31	CASE (2), LOWER	
54	1-556-577-00	CORD (WITH DIN PLUG) 8P	
55	2-192-616-11	BUSHING (DIA. 4), CORD	
56	2-366-609-00	PLATE (2), FROSTED	
57	●:4-342-117-00	CASE, SHIELD (MAIN), R	
58	●:4-342-118-00	LID, SHIELD CASE, R	
59	●:1-608-697-00	RM-2 BOARD	
60	●:1-606-794-00	N BOARD	

9. ELECTRICAL PARTS LIST

NOTE:

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS
- MF : µF, PF : µµF

Ref.No.	Part No.	Description				Remark
	♠:1-606-794-00	N BOARD *******				
		CAPACITOR				
C1	1-123-617-00	ELECT	10MF	20%	16V	
C2	1-123-617-00	ELECT	10MF	20%	16V	
C3	1-123-617-00	ELECT	10MF	20%	16V	
C4	1-161-019-00	CERAMIC	0.033MF	10%	25V	
C5	1-108-567-00	MYLAR	0.0033MF	5%	50V	
C6	1-123-821-00	ELECT	47MF	20%	16V	
		DIODE				
D1	8-719-110-32	DIODE PH302B				
		IC				
IC1	8-759-113-73	IC UPC1373H				
		COIL				
L1	1-404-310-00	COIL				

****

Ref.No.	Part No.	Description				Remark
	♠:1-608-697-00	RM-2 BOARD **********				
		CAPACITOR				
C601	1-102-980-00	CERAMIC	270PF	5%	50V	
C602	1-102-823-00	CERAMIC	43PF	5%	50V	
C603	1-161-032-00	CERAMIC	0.01MF	20%	25V	
C604	1-123-617-00	ELECT	10MF	20%	16V	
C605	1-123-617-00	ELECT	10MF	20%	16V	
C606	1-161-194-00	CERAMIC	0.0022MF	10%	25V	
C607	1-161-194-00	CERAMIC	0.0022MF	10%	25V	
C608	1-161-194-00	CERAMIC	0.0022MF	10%	25V	
		DIODE				
D601	8-719-812-41	DIODE TLR124				
D602	8-719-815-55	DIODE 1S1555				
D603	8-719-815-55	DIODE 1S1555				
D604	8-719-815-55	DIODE 1S1555				
D605	8-719-815-55	DIODE 1S1555				
D606	8-719-815-55	DIODE 1S1555				
D607	8-719-815-55	DIODE 1S1555				
		IC				
IC601	8-759-147-60	IC UPD547C-060				
IC602	8-759-345-38	IC HD14538BP				
IC603	8-759-240-81	IC TC4081BP				
		TRANSISTOR				
Q601	=>8-729-612-77	TRANSISTOR 2SA1027R				
Q602	8-729-606-32	TRANSISTOR 2SC2603				
Q603	8-729-606-32	TRANSISTOR 2SC2603				
Q604	8-729-606-32	TRANSISTOR 2SC2603				
		RESISTOR				
R601	1-247-903-00	CARBON	1M	5%	1/6W	
R602	1-247-838-00	CARBON	2K	5%	1/6W	
R603	1-247-838-00	CARBON	2K	5%	1/6W	
R604	1-247-855-00	CARBON	10K	5%	1/6W	
R605	1-247-855-00	CARBON	10K	5%	1/6W	
R606	1-247-896-00	CARBON	510K	5%	1/6W	
R607	1-247-855-00	CARBON	10K	5%	1/6W	
R608	1-247-855-00	CARBON	10K	5%	1/6W	
R609	1-247-855-00	CARBON	10K	5%	1/6W	
R610	1-247-855-00	CARBON	10K	5%	1/6W	
R611	1-247-855-00	CARBON	10K	5%	1/6W	
R612	1-247-861-00	CARBON	18K	5%	1/6W	
R613	1-247-838-00	CARBON	2K	5%	1/6W	
R614	1-247-888-00	CARBON	240K	5%	1/6W	
R615	1-247-887-00	CARBON	220K	5%	1/6W	
R616	1-247-879-00	CARBON	100K	5%	1/6W	
R617	1-247-790-00	CARBON	20	5%	1/6W	
		CRYSTAL				
X601	1-527-532-00	OSCILLATOR, CERAMIC 400KHz				

****

Ref.No.	Part No.	Description				Remark
	♠:1-608-696-00	IR-10 BOARD ***********				
	2-290-601-00	TERMINAL (A), BATTERY				
	2-290-602-00	TERMINAL (B), BATTERY				
		CAPACITOR				
C501	1-101-361-00	CERAMIC	150PF	5%	50V	
C502	1-101-361-00	CERAMIC	150PF	5%	50V	
		DIODE				
D501	8-719-103-03	DIODE SE303A				
D502	8-719-103-03	DIODE SE303A				
D503	8-719-901-44	DIODE SLP144B				
		IC				
IC501	8-759-601-12	IC M50112P				
		TRANSISTOR				
Q501	8-729-967-32	TRANSISTOR 2SC2673				
		RESISTOR				
R501	1-247-809-00	CARBON	120	5%	1/6W	
R502	1-247-767-00	CARBON	2.2	5%	1/6W	
R503	1-247-767-00	CARBON	2.2	5%	1/6W	
R504	1-247-795-00	CARBON	33	5%	1/6W	

Ref.No.	Part No.	Description	Remark
		CRYSTAL	
X501	1-527-476-00	OSCILLATOR, CERAMIC	

****

MISCELLANEOUS
****

Ref.No.	Part No.	Description	Remark
	1-556-577-00	CORD (WITH DIN PLUG) 8P	

ACCESSORIES AND PACKING MATERIALS
****

Part No.	Description	Remark
2-374-604-00	CUSHION	
2-374-610-01	INDIVIDUAL CARTON	
3-773-182-51	MANUAL, INSTRUCTION	

HARDWARE NOMENCLATURE

Screw: – P 3 x 10

L: *Length in mm*

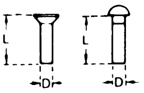
D: *Diameter in mm*

Type of head

Indicated slotted-head only.

Unless otherwise indicated, it means

cross-recessed head (Phillips type).



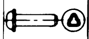
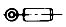
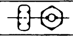
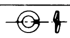
Nut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft

Reference designation

Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

SL-T7MER
RMR-214K

Sony Corporation
Consumer Products Group
Technical Support Dept.

9-972-216-01

English
82L0966-1
Printed in Japan

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